

**\$210mn**

2023 Net Sales

**600+**

Employee

**80+**

Patents

**56<sup>th</sup>**

Provincial  
Post-doctoral  
work-station

**6**

Production Sites



Poly Plastic Masterbatch (Suzhou) Co., Ltd.

Stock Code: 300905

Homepage: [www.ppm-sz.com](http://www.ppm-sz.com)

# Company Introduction



\*Fiber hereinafter means both filament/yarn and staple fiber unless otherwise specified



# Our Footprint



1995



Wuxian Kangda Fiber MB plant

2008



Siyang Baoyuan Plastic Co., Ltd.

2021



Poly Plastic Masterbatch Kimya Sanayi Ve Ticaret Limited Sirketi, **Gaziantep**

PPM Turkey plant setup; Jiangxi Sincere Color Paste factory acquired

2004

Suzhou Poly Plastics Material Co., Ltd.



2004

Poly Plastic Masterbatch (Suzhou) Co., Ltd. publicly listed at SZSE

2020



2022

PPM Research Institute

2022

2023

Est. YOCOF and PPM Hubei; Acquired Xiamen Luyi MB



- ①: Poly Plastic Masterbatch Suzhou
- ②: PPM Suqian
- ③: PPM Xiaoshan Color Matching Service Center
- ④: Xiamen Luyi Color Masterbatch
- ⑤: Jiangxi Sincere New Material
- ⑥: PPM Kimya Sanayi Ve Ticaret Limited Sirketi
- ⑦: YOCOF New Material Suzhou
- ⑧: PPM Hubei New Material



# Automated Manufacturing Workshop

**PPM**  
POLY PLASTIC MASTERBATCH



**DSC – 5G plant**



**Automation  
Production Lines**





# Automated Manufacturing Workshop



120 Automated Weighing System AGV delivery

Mixing

Extrusion

## Advantages

- ✓ High degree automation and higher efficiency save manpower
- ✓ Precision in dosage of ingredient and therefore low ratio of mixing error make quality of final MB products more stable subsequently
- ✓ Producing high volume single color MB and then mixing them for final product make production process much more clean





# Testing Center



CNAS certificate is granted by *China National Accreditation Service for Conformity Assessment*, being part of *China Laboratory Accreditation scheme*. Its purpose is to improve quality and capability of testing laboratory, improve trust of test data and enhance coordination and mutual recognition of test data between domestic and international laboratory.



## CNAS certificate awarded in Oct 2023





# Analytical Testing Equipment...1/2



**MFR Tester**



**FPV Testing Equipment**



**Viscosity Tester**



**Spectrophotometer**



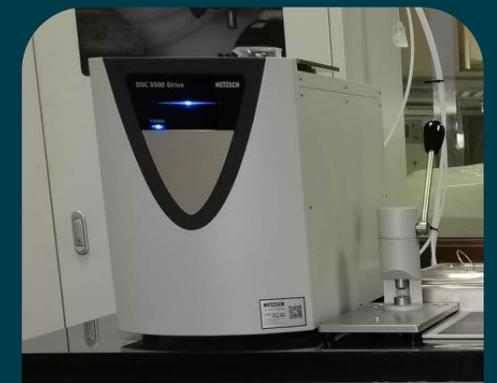
**Gas Chromatograph**



**Infrared Spectrometer**



**Laser Particle Size Analyzer**



**DSC** ← →



# Analytical Testing Equipment...2/2



**TGA**



**Nanoparticle Size Analyzer**



**Capillary Rheometer**



**Universal Tester**



**Xenon Test Chamber  
model 1**



**Xenon Test Chamber  
model 2**



**UV Accelerated  
Weathering Tester**





# Pilot Line – Plastics



**Injection Machine**



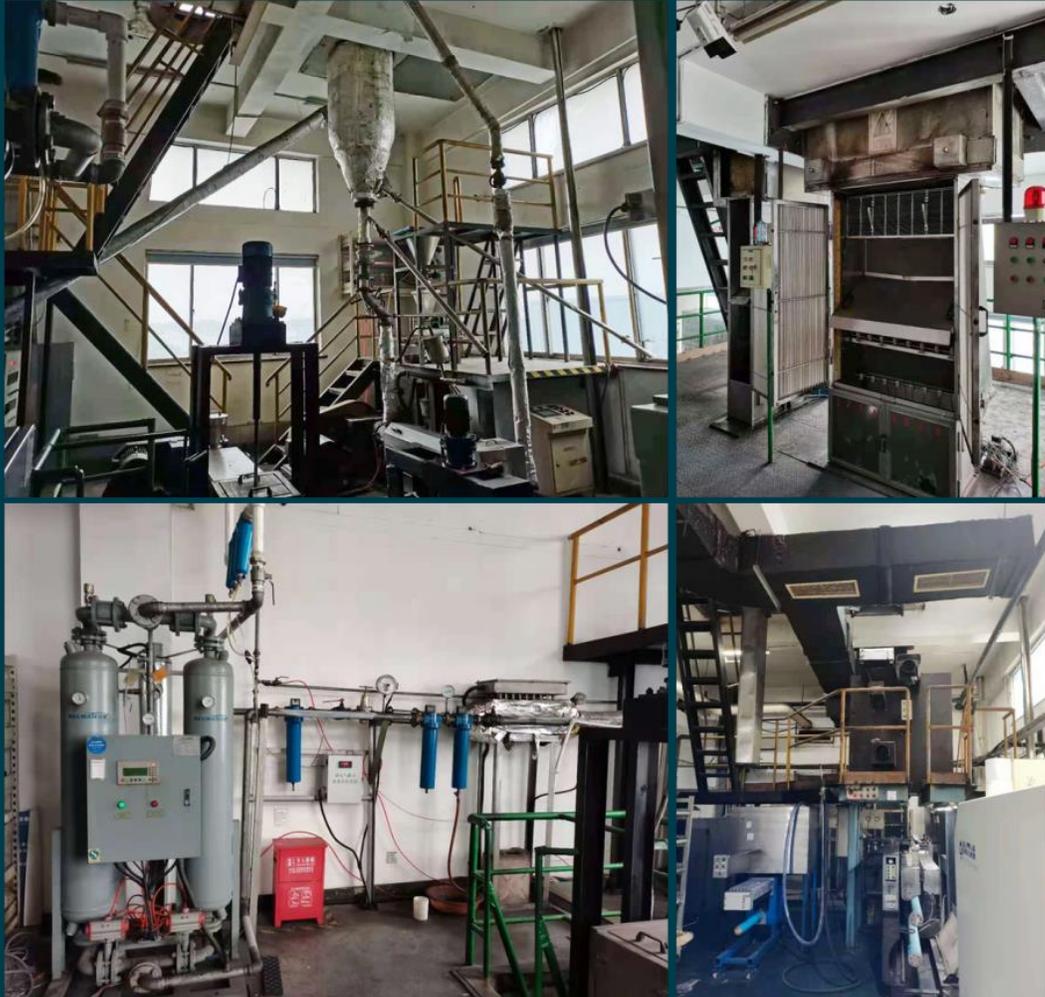
**Twin-screw Extruder**



**Synthetic Turf Extruder**



# Pilot Line – Fiber



**Melt Spinning POY Pilot Line**



**Multi-functional Wet Spinning Tester**





**Tri-layer Co-extrusion Film Lab Line**



**BO Film Tester**

**We should produce good quality masterbatch here in PPM, at a profit – if we can, at a loss – if we must, but always good masterbatch.**

Chairman Mr Xu Yiming



# Product Introduction

# 2

# Miscellaneous Applications

Base resin: PET, PBT, LLDPE, PP, PA6, PA66, PC, ABS, PS, SAN, EVA, PMMA

Black MB  
Color MB

Matting MB  
Functional MB





# Black MB for PET filament & staple fiber



苏州宝丽迪材料科技股份有限公司  
Poly Plastic Masterbatch (Suzhou) Co., Ltd  
苏州市相城区北桥街道徐家观路 29 号  
No. 29, Xujiaguang Road, Beiqiao Street, Xiangcheng District, Suzhou, Jiangsu

质检报告  
Certificate of Analysis

产品信息 (Product Info):

产品型号 (Item): TBF62C      生产日期 (Date of Manufacture): 2024-4-30  
批号 (Lot No.): 24042523      批次重量 (Quantity): 20000kg

检验结果 (Test Results):

| 检验项目                 | 测试条件      | 下限        | 目标     | 上限       | 结果     | 单位   |
|----------------------|-----------|-----------|--------|----------|--------|------|
| Test Item            | Condition | low Limit | Target | Up Limit | Result | Unit |
| Color DE*            | D65-10°   | 0.00      | -      | 0.80     | 0.24   | -    |
| Delta P              | Standard  | 0.00      | 0.00   | 1.00     | 0.21   | Mpa  |
| Intrinsic Viscosity  | Standard  | 0.30      | 0.35   | 0.40     | 0.38   | dL/g |
| Gram per 100 pellets | Standard  | 2.80      | 3.00   | 3.20     | 3.00   | g    |
| Melting Point        | Standard  | 255       | 259    | 263      | 259    | °C   |
| Different Shape      | Standard  | 0.00      | -      | 0.40     | 0.16   | %    |
| Moisture             | Standard  | 0.00      | -      | 0.40     | 0.23   | %    |

执行标准 (Executive standard): Q/320507 NCB01-2024

Best solution for both  
Virgin & rPET  
filament & PSF  
CP/direct spinning and  
flake/chip spinning

Typical product TBF62C  
suitable for POY/DTY, FDY and PSF  
particle size 2 – 3 mm  
Content 28% Carbon Black  
Dosage 3 – 8%

Tailor-made MB with various content available





# Black MB for rPET filament & staple fiber



苏州宝丽迪材料科技股份有限公司  
 Poly Plastic Masterbatch (Suzhou) Co., Ltd  
 苏州市相城区北桥街道徐家观路 29 号  
 No. 29, Xujiaguan Road, Beiqiao Street, Xiangcheng District, Suzhou, Jiangsu



质检报告  
 Certificate of Analysis

产品信息 (Product Info):

产品型号 (Item) : TBF69A-TC      生产日期 (Date of Manufacture) : 2024-4-22  
 批号 (Lot No.) : 24041003      批次重量 (Quantity) : 3375kg

检验结果 (Test Results):

| 检验项目                 | 测试条件      | 下限        | 目标     | 上限       | 结果     | 单位   |
|----------------------|-----------|-----------|--------|----------|--------|------|
| Test Item            | Condition | low Limit | Target | Up Limit | Result | Unit |
| Color DE*            | D65-10°   | 0.00      | -      | 0.80     | 0.38   | -    |
| Delta P              | Standard  | 0.00      | 0.00   | 1.00     | 0.39   | Mpa  |
| Intrinsic Viscosity  | Standard  | 0.40      | 0.45   | 0.50     | 0.45   | dL/g |
| Gram per 100 pellets | Standard  | 2.80      | 3.00   | 3.20     | 3.00   | g    |
| Melting Point        | Standard  | 251       | 255    | 259      | 253    | °C   |
| Different Shape      | Standard  | 0.00      | -      | 0.40     | 0.19   | %    |
| Moisture             | Standard  | 0.00      | -      | 0.40     | 0.21   | %    |

执行标准 (Executive standard) : Q/320507 NCB01-2024

Best solution for both  
 rPET  
 filament & PSF  
 Recycling bottle fragments

Typical product TBF69A -TC  
 suitable for POY/DTY, FDY and PSF  
 particle size 2 – 3 mm

Content 26% Carbon Black

Dosage 5 – 10%

Provide TC certificate

Tailor-made MB with various content available



# Matting MB for PET filament & staple fiber



苏州宝丽迪材料科技股份有限公司  
Poly Plastic Masterbatch (Suzhou) Co., Ltd  
苏州市相城区北桥街道徐家观路 29 号  
No. 29, Xujiaguan Road, Beijiao Street, Xiangcheng District, Suzhou, Jiangsu

## 质检报告 Certificate of Analysis

### 产品信息 (Product Info):

产品型号 (Item) : TW11236-A1      生产日期 (Date of Manufacture) : 2024-6-24  
批号 (Lot No.) : --      批次重量 (Quantity) : 2000kg

### 检验结果 (Test Results):

| 检验项目                 | 测试条件      | 下限        | 目标     | 上限       | 结果     | 单位   |
|----------------------|-----------|-----------|--------|----------|--------|------|
| Test Item            | Condition | Low Limit | Target | Up Limit | Result | Unit |
| Color DE*            | D65-10°   | 0.00      | -      | 0.80     | 0.22   | -    |
| Delta P              | Standard  | 0.00      | 0.00   | 1.00     | 0.17   | Mpa  |
| Intrinsic Viscosity  | Standard  | 0.53      | 0.58   | 0.63     | 0.60   | dL/g |
| Gram per 100 pellets | Standard  | 1.60      | 1.80   | 2.00     | 1.81   | g    |
| Melting Point        | Standard  | 246       | 250    | 254      | 250    | °C   |
| TiO2 Content         | Standard  | 9.80      | 10.00  | 10.20    | 10.00  | %    |
| Different Shape      | Standard  | 0.00      | -      | 0.40     | 0.17   | %    |
| Moisture             | Standard  | 0.00      | -      | 0.40     | 0.18   | %    |

执行标准 (Executive standard) : Q/320507 NCB01-2024

Best solution for both  
Virgin & rPET  
filament & PSF  
CP/direct spinning and  
flake/chip spinning

Typical product TW11236-A1  
suitable for POY/DTY, FDY and PSF

Content 10% TiO<sub>2</sub>  
Dosage 3% for Semi-dull

Tailor-made MB with various content (5 - 60%)



# Matting MB for PET filament & staple fiber

苏州宝丽迪材料科技股份有限公司  
Poly Plastic Masterbatch (Suzhou) Co., Ltd  
苏州市相城区北桥街道徐家观路 29 号  
No. 29, Xujiaguan Road, Beiqiao Street, Xiangcheng District, Suzhou, Jiangsu

质检报告  
Certificate of Analysis

产品信息 (Product Info):

产品型号 (Item) : TW11176-A50      生产日期 (Date of Manufacture) : 2024-8-23  
批号 (Lot No.) : 24082321      批次重量 (Quantity) : 10000kg

检验结果 (Test Results):

| 检验项目                 | 测试条件      | 下限        | 目标     | 上限       | 结果     | 单位   |
|----------------------|-----------|-----------|--------|----------|--------|------|
| Test Item            | Condition | low Limit | Target | Up Limit | Result | Unit |
| Color DE*            | D65-10°   | 0.00      | -      | 0.80     | 0.27   | -    |
| Delta P              | Standard  | 0.00      | 0.00   | 1.00     | 0.20   | Mpa  |
| Intrinsic Viscosity  | Standard  | 0.20      | 0.25   | 0.30     | 0.25   | dL/g |
| Gram per 100 pellets | Standard  | 2.10      | 2.30   | 2.50     | 2.23   | g    |
| Melting Point        | Standard  | 246       | 250    | 254      | 253    | °C   |
| TiO2 Content         | Standard  | 49.50     | 50.00  | 50.50    | 49.80  | %    |
| Different Shape      | Standard  | 0.00      | -      | 0.40     | 0.17   | %    |
| Moisture             | Standard  | 0.00      | -      | 0.40     | 0.22   | %    |

执行标准 (Executive standard) : Q/320507 NCB01-2024

Best solution for both  
Virgin & rPET  
filament & PSF  
CP/direct spinning and  
flake/chip spinning

Typical product TW11176-A50  
suitable for POY/DTY, FDY and PSF

Content 50% TiO<sub>2</sub>

Dosage 0.6% for Semi-dull; 4% for Full-dull

Tailor-made MB with various content (5 - 60%)



# Color MB for PET Carpet fiber



苏州宝丽迪材料科技股份有限公司  
Poly Plastic Masterbatch (Suzhou) Co., Ltd  
苏州市相城区北桥街道徐家观路 29 号  
No. 29, Xujiaguan Road, Beiqiao Street, Xiangcheng District, Suzhou, Jiangsu

## 质检报告 Certificate of Analysis

### 产品信息 (Product Info):

产品型号 (Item) : TL23179-A1      生产日期 (Date of Manufacture) : 2024-8-23  
批号 (Lot No.) : 24082084      批次重量 (Quantity) : 1503kg

### 检验结果 (Test Results):

| 检验项目<br>Test Item    | 测试条件<br>Condition | 下限<br>low Limit | 目标<br>Target | 上限<br>Up Limit | 结果<br>Result | 单位<br>Unit |
|----------------------|-------------------|-----------------|--------------|----------------|--------------|------------|
| Color DE*            | D65-10°           | 0.00            | -            | 0.80           | 0.23         | -          |
| Delta P              | Standard          | 0.00            | 0.00         | 1.00           | 0.16         | Mpa        |
| Intrinsic Viscosity  | Standard          | 0.55            | 0.60         | 0.65           | 0.58         | dL/g       |
| Gram per 100 pellets | Standard          | 2.30            | 2.50         | 2.70           | 2.49         | g          |
| Melting Point        | Standard          | 226             | 230          | 234            | 230          | °C         |
| Different Shape      | Standard          | 0.00            | -            | 0.40           | 0.20         | %          |
| Moisture             | Standard          | 0.00            | -            | 0.40           | 0.16         | %          |

执行标准 (Executive standard) : Q/320507 NCB01-2024

Best solution for both  
Virgin & rPET  
filament & PSF  
CP/direct spinning and  
flake/chip spinning

Most products are tailor-made according to  
customer & application requirement,  
containing all kinds of colorants,  
e.g. pigment, dye.

Can meet the requirement of 130 degree  
steam setting without discoloration

Single Pigment Concentrate (so-called SPC,  
or SPD – Dispersion – or Mono MB) available





# Color MB for PET high Sun fastness fiber



Best solution for both  
Virgin & rPET  
filament & PSF  
CP/direct spinning and  
flake/chip spinning

Fastness test can run for 200 – 1000 hours  
according to AATCC 16.3

Most products are tailor-made according to  
customer & application requirement,  
containing all kinds of colorants,  
e.g. pigment, dye.

Single Pigment Concentrate (so-called SPC,  
or SPD – Dispersion – or Mono MB) available



**PPM**  
POLY PLASTIC MASTERBATCH

苏州宝丽迪材料科技股份有限公司  
Poly Plastic Masterbatch (Suzhou) Co., Ltd  
苏州市相城区北桥街道徐家观路 29 号  
No. 29, Xujiaguan Road, Beiqiao Street, Xiangcheng District, Suzhou, Jiangsu

**质检报告**  
Certificate of Analysis

产品信息 (Product Info):  
产品型号 (Item) : TE30722-A1G      生产日期 (Date of Manufacture) : 2024-8-29  
批号 (Lot No.) : 24082910      批次重量 (Quantity) : 228kg

检验结果 (Test Results):

| 检验项目                 | 测试条件      | 下限        | 目标     | 上限       | 结果     | 单位   |
|----------------------|-----------|-----------|--------|----------|--------|------|
| Test Item            | Condition | low Limit | Target | Up Limit | Result | Unit |
| Color DE*            | D65-10°   | 0.00      | -      | 0.80     | 0.25   | -    |
| Delta P              | Standard  | 0.00      | 0.00   | 1.00     | 0.17   | Mpa  |
| Intrinsic Viscosity  | Standard  | 0.50      | 0.55   | 0.60     | 0.57   | dL/g |
| Gram per 100 pellets | Standard  | 2.30      | 2.50   | 2.70     | 2.35   | g    |
| Melting Point        | Standard  | 249       | 253    | 257      | 253    | °C   |
| Different Shape      | Standard  | 0.00      | -      | 0.40     | 0.18   | %    |
| Moisture             | Standard  | 0.00      | -      | 0.40     | 0.16   | %    |

执行标准 (Executive standard) : Q/320507 NCB01-2024

# Color MB for PET Sofa fabric fiber



苏州宝丽迪材料科技股份有限公司  
Poly Plastic Masterbatch (Suzhou) Co., Ltd  
苏州市相城区北桥街道徐家观路 29 号  
No. 29, Xujiaguan Road, Beiqiao Street, Xiangcheng District, Suzhou, Jiangsu

质检报告  
Certificate of Analysis

产品信息 (Product Info):  
产品型号 (Item): TY12547-A1  
批号 (Lot No.): 24081967  
生产日期 (Date of Manufacture): 2024-8-22  
批次重量 (Quantity): 2000kg

检验结果 (Test Results):

| 检验项目                 | 测试条件      | 下限        | 目标     | 上限       | 结果     | 单位   |
|----------------------|-----------|-----------|--------|----------|--------|------|
| Test Item            | Condition | low Limit | Target | Up Limit | Result | Unit |
| Color DE*            | D65-10°   | 0.00      | -      | 0.80     | 0.27   | -    |
| Delta P              | Standard  | 0.00      | 0.00   | 1.00     | 0.14   | Mpa  |
| Intrinsic Viscosity  | Standard  | 0.52      | 0.57   | 0.62     | 0.58   | dL/g |
| Gram per 100 pellets | Standard  | 2.30      | 2.50   | 2.70     | 2.41   | g    |
| Melting Point        | Standard  | 249       | 253    | 257      | 253    | °C   |
| Different Shape      | Standard  | 0.00      | -      | 0.40     | 0.17   | %    |
| Moisture             | Standard  | 0.00      | -      | 0.40     | 0.21   | %    |

执行标准 (Executive standard): Q/320507 NCB01-2024

Best solution for both  
Virgin & rPET  
filament & PSF  
CP/direct spinning and  
flake/chip spinning

Specifically for furniture e.g. Sofa  
with good anti-rubbing performance

Most products are tailor-made  
according to customer &  
application requirement,  
containing all kinds of  
colorants, e.g. pigment, dye.



# OB-1 White MB for staple fiber



苏州宝丽迪材料科技股份有限公司  
Poly Plastic Masterbatch (Suzhou) Co., Ltd  
苏州市相城区北桥街道徐家观路 29 号  
No. 29, Xujiaguan Road, Beiqiao Street, Xiangcheng District, Suzhou, Jiangsu

质检报告  
Certificate of Analysis

产品信息 (Product Info):

产品型号 (Item): PES9012                      生产日期 (Date of Manufacture): 2024-8-30  
批号 (Lot No.): 24082688                      批次重量 (Quantity): 1000kg

检验结果 (Test Results):

| 检验项目                 | 测试条件      | 下限        | 目标     | 上限       | 结果     | 单位   |
|----------------------|-----------|-----------|--------|----------|--------|------|
| Test Item            | Condition | low Limit | Target | Up Limit | Result | Unit |
| Color DE*            | D65-10°   | 0.00      | -      | 0.80     | 0.28   | -    |
| Delta P              | Standard  | 0.00      | 0.00   | 1.00     | 0.15   | Mpa  |
| Intrinsic Viscosity  | Standard  | 0.45      | 0.50   | 0.55     | 0.51   | dL/g |
| Gram per 100 pellets | Standard  | 2.30      | 2.50   | 2.70     | 2.48   | g    |
| Melting Point        | Standard  | 249       | 253    | 257      | 253    | °C   |
| Different Shape      | Standard  | 0.00      | -      | 0.40     | 0.20   | %    |
| Moisture             | Standard  | 0.00      | -      | 0.40     | 0.18   | %    |

执行标准 (Executive standard): Q/320507 NCB01-2024

Best solution for both

rPET

PSF

CP/direct spinning and  
flake/chip spinning

For 12% OB-1 MB , dosage 0.6% for  
increasing whiteness



# White MB for ES fiber in Hygiene application



苏州宝丽迪材料科技股份有限公司  
Poly Plastic Masterbatch (Suzhou) Co., Ltd  
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**质检报告**  
Certificate of Analysis

**产品信息 (Product Info):**  
产品型号 (Item) : TW10753-A1      生产日期 (Date of Manufacture) : 2024-9-1  
批号 (Lot No.) : -      批次重量 (Quantity) : 2000kg

**检验结果 (Test Results):**

| 检验项目                 | 测试条件      | 下限        | 目标     | 上限       | 结果     | 单位   |
|----------------------|-----------|-----------|--------|----------|--------|------|
| Test Item            | Condition | low Limit | Target | Up Limit | Result | Unit |
| Color DE*            | D65-10°   | 0.00      | -      | 0.80     | 0.37   | -    |
| Delta P              | Standard  | 0.00      | -      | 1.00     | 0.29   | Mpa  |
| Intrinsic Viscosity  | Standard  | 0.18      | 0.20   | 0.22     | 0.21   | dL/g |
| Gram per 100 pellets | Standard  | 2.80      | 3.00   | 3.20     | 3.06   | g    |
| Melting Point        | Standard  | 255       | 259    | 263      | 259    | °C   |
| TiO2 Content         | Standard  | 59.50     | 60.00  | 60.50    | 59.90  | %    |
| Different Shape      | Standard  | 0.00      | -      | 0.40     | 0.17   | %    |
| Moisture             | Standard  | 0.00      | -      | 0.40     | 0.20   | %    |

执行标准 (Executive standard) : Q/320507 NCB01-2024

Best solution for ET type  
Chip spinning

Typical product TW10753-A1  
TW11038-A1

60% TiO<sub>2</sub>, dosage 6 – 7%

Sb-free type also available

Typical product TW0617

50% TiO<sub>2</sub>, dosage 8%



# Black MB for PA6/PA66 filament & staple fiber

苏州宝丽迪材料科技股份有限公司  
Poly Plastic Masterbatch (Suzhou) Co., Ltd  
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## 质检报告 Certificate of Analysis

### 产品信息 (Product Info):

产品型号 (Item): NB10052-A1      生产日期 (Date of Manufacture): 2024-9-1  
批号 (Lot No.): --      批次重量 (Quantity): 3300kg

### 检验结果 (Test Results):

| 检验项目                 | 测试条件      | 下限        | 目标     | 上限       | 结果     | 单位   |
|----------------------|-----------|-----------|--------|----------|--------|------|
| Test Item            | Condition | low Limit | Target | Up Limit | Result | Unit |
| Color DE*            | D65-10°   | 0.00      | -      | 1.00     | 0.30   | -    |
| Delta P              | Standard  | 0.00      | -      | 2.00     | 0.17   | Mpa  |
| Gram per 100 pellets | Standard  | 1.90      | 2.10   | 2.30     | 2.10   | g    |
| Melting Point        | Standard  | 222       | 226    | 230      | 225    | °C   |
| Different Shape      | Standard  | 0.00      | -      | 0.40     | 0.17   | %    |
| Moisture             | Standard  | 0.00      | -      | 0.10     | 0.09   | %    |

执行标准 (Executive standard): Q/320507 NCB01-2024

Best solution for both  
Monofilament & Staple Fiber  
Flake/Chip spinning  
Sea island Composite Fiber

Typical product NB10052-A1  
suitable for POY/DTY and FDY  
particle size 2 – 3 mm

Content 35% Carbon Black  
Dosage 3 – 8% for normal application  
15 – 20% for Sea-Island

Tailor-made MB with various content & different  
kind of black colorants e.g. carbon black,  
nigrosine available



# White MB for PA6/PA66 filament & staple fiber



Best solution for both  
 Monofilament & Staple Fiber  
 Flake/Chip spinning  
 Sea island Composite Fiber

Typical product NW10036-A1  
 suitable for POY/DTY and FDY  
 particle size 2 – 3 mm  
 Content 50% TiO<sub>2</sub>  
 Dosage 4%



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 苏州市相城区北桥街道徐家观路 29 号  
 No. 29, Xujiaguan Road, Beiqiao Street, Xiangcheng District, Suzhou, Jiangsu

**质检报告**  
 Certificate of Analysis

**产品信息 (Product Info):**  
 产品型号 (Item) : NW10036-A1      生产日期 (Date of Manufacture) : 2024-9-1  
 批号 (Lot No.) : --      批次重量 (Quantity) : 2800kg

**检验结果 (Test Results):**

| 检验项目                 | 测试条件             | 下限               | 目标            | 上限              | 结果            | 单位          |
|----------------------|------------------|------------------|---------------|-----------------|---------------|-------------|
| <u>Test Item</u>     | <u>Condition</u> | <u>low Limit</u> | <u>Target</u> | <u>Up Limit</u> | <u>Result</u> | <u>Unit</u> |
| Color DE*            | D65-10°          | 0.00             | -             | 1.00            | 0.32          | -           |
| Delta P              | Standard         | 0.00             | -             | 2.00            | 0.22          | Mpa         |
| Gram per 100 pellets | Standard         | 1.90             | 2.10          | 2.30            | 2.12          | g           |
| Melting Point        | Standard         | 222              | 226           | 230             | 225           | °C          |
| Different Shape      | Standard         | 0.00             | -             | 0.40            | 0.13          | %           |
| Moisture             | Standard         | 0.00             | -             | 0.10            | 0.09          | %           |

执行标准 (Executive standard) : Q/320507 NCB01-2024



# Color MB for PA6 filament & staple fiber



苏州宝丽迪材料科技股份有限公司  
 Poly Plastic Masterbatch (Suzhou) Co., Ltd  
 苏州市相城区北桥街道徐家观路 29 号  
 No. 29, Xujiaguan Road, Beiqiao Street, Xiangcheng District, Suzhou, Jiangsu



质检报告  
 Certificate of Analysis

产品信息 (Product Info):

产品型号 (Item) : NL10045-A1      生产日期 (Date of Manufacture) : 2024-9-1  
 批号 (Lot No.) : --      批次重量 (Quantity) : 2250kg

检验结果 (Test Results):

| 检验项目                 | 测试条件             | 下限               | 目标            | 上限              | 结果            | 单位          |
|----------------------|------------------|------------------|---------------|-----------------|---------------|-------------|
| <u>Test Item</u>     | <u>Condition</u> | <u>low Limit</u> | <u>Target</u> | <u>Up Limit</u> | <u>Result</u> | <u>Unit</u> |
| Color DE*            | D65-10°          | 0.00             | -             | 1.00            | 0.27          | -           |
| Delta P              | Standard         | 0.00             | -             | 2.00            | 0.21          | Mpa         |
| Gram per 100 pellets | Standard         | 1.60             | 1.80          | 2.00            | 1.83          | g           |
| Melting Point        | Standard         | 222              | 226           | 230             | 225           | °C          |
| Different Shape      | Standard         | 0.00             | -             | 0.40            | 0.15          | %           |
| Moisture             | Standard         | 0.00             | -             | 0.10            | 0.09          | %           |

执行标准 (Executive standard) : Q/320507 NCB01-2024

Best solution for both  
 Monofilament & Staple Fiber  
 Flake/Chip spinning  
 Sea island Composite Fiber

Typical product NL10045-A1  
 suitable for POY/DTY and FDY  
 particle size 2 – 3 mm  
 Dosage 4%

Single Pigment Concentrate (so-called  
 SPC or SPD – Dispersion – or Mono MB)  
 available





PPM  
POLY PLASTIC

# Functional MB



# Dark Color Energy Storing & Heating MB



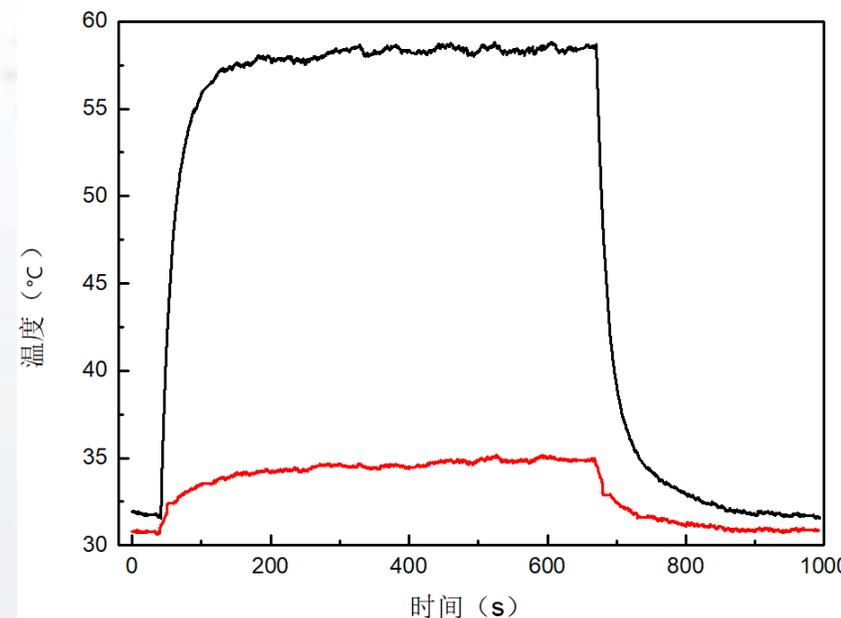
<https://ri.ppm-sz.cn/>

GB/T 30127 correspondent to ISO 20349:2006, ASTM D 4415-89

## MB & Fiber Sample



## Application



Temp. – Time curve under 100 mW/cm<sup>2</sup> light

Black: Heating MB Fiber sample;  
Red: Original Fiber sample

GB/T 30127 Textile Far Infrared Performance test & evaluation:

Far Infrared temp. raise by 2.0°C, > standard 1.4 °C



# Light Color Energy Storing & Heating MB



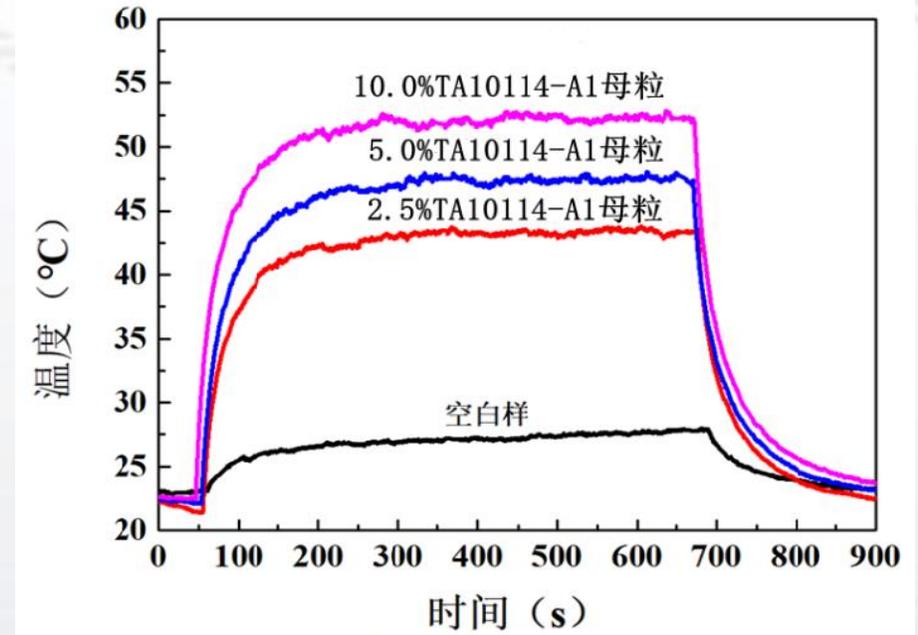
<https://ri.ppm-sz.cn/>

GB/T 30127 correspondent to ISO 20349:2006, ASTM D 4415-89

## MB & Fiber sample



- ✓ Able to absorb near Infrared and body heat transferring into heating, suitable for outdoor equipment in high altitude & cold area
- ✓ Adding this MB can make fiber easily colored with dyestuff



Temp. – Time curve under 100 mW/cm<sup>2</sup> light  
Black: Original Fiber sample

GB/T 30127 Textile Far Infrared Performance test & evaluation:

**Far Infrared temp. raise by 1.7°C**  
**Far Infrared emissivity 0.92**



# Graphene MB



<https://ri.ppm-sz.cn/>

GB/T 20944.3-2008 correspondent to ASTM E 2149

GB/T 30127 correspondent to ISO 20349:2006, ASTM D 4415-89

## Graphene MB & Fiber

## Application



| 检         |                                 | 防伪查询网址: www.fci-sz.org.cn |           |
|-----------|---------------------------------|---------------------------|-----------|
| 报告编号      | 报告编号(No.): BA23001661           |                           |           |
| 客户信息      | 第 2 页 共 2 页                     |                           |           |
| 客户认定信息    | 标准(称)值                          | 实测值                       | 单项判定      |
| 检验性质      | Requirement                     | Results                   | Judgement |
| 检验/判定依据   | 远红外发射率 GB/T 30127-2013          | ≥0.88                     | 0.93      |
| 综合检验结论    | 符合                              |                           |           |
| 检验结果及单项判定 | 符合                              |                           |           |
| 样品呈现      | 远红外辐射升温(°C) GB/T 30127-2013     | ≥1.4                      | 2.3       |
|           | 大肠杆菌抑菌率(%) GB/T 20944.3-2008    | ≥70                       | 96        |
|           | 金黄色葡萄球菌抑菌率(%) GB/T 20944.3-2008 | ≥70                       | >99       |
|           | 白色念珠菌抑菌率(%) GB/T 20944.3-2008   | ≥60                       | 96        |
|           | 以下空白                            |                           |           |
| 备注        |                                 |                           |           |
| 批准:       | 成                               |                           |           |



GB/T 20944.3

Staphylococcus aureus ≥99%

Escherichia coli ≥96%

Candidaalbicans ≥96%

GB/T 30127

Far Infrared temp. raise by 2.3°C

Far Infrared emissivity 0.93



# Fire Retardant MB



<https://ri.ppm-sz.cn/>

GB/T 5454 correspondent to ISO 4589

CTI 华测检测

## 检测报告

CTI 华测检测 **MA** 中国认可 国际互认 检测 TESTING CNAS L5541 150900341277

### 检测报告 Test Report

报告编号 A2210241114101E 第 1 页共 5 页  
Report No. A2210241114101E Page 1 of 5

**报告抬头公司名称** 苏州宝丽迪材料科技股份有限公司  
**Company Name** POLY PLASTIC MASTERBATCH (SUZHOU) CO., LTD.  
**Show on Report**  
**地址** 苏州市相城区北桥街道石园路  
**Address** SHIYUAN ROAD, BEIQIAO STREET, XIANGCHENG DISTRICT, SUZHOU CITY

**以下测试之样品及样品信息由申请者提供并确认**  
The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

|                      |   |
|----------------------|---|
| 样品名称                 | PET 阻燃母粒(TA9011)的纤维布样   |
| Sample Name          | Pet flame retardant master batch (TA9011) spun fiber cloth sample |
| 样品来源                 | 委托方送样   |
| Sample Source        | Client deliver  |
| 样品状态                 | 完好  |
| Sample Status        | In good status  |
| 样品接收日期               | 2021.06.22  |
| Sample Received Date | Jun. 22, 2021   |
| 样品检测日期               | 2021.06.22-2021.06.28   |
| Testing Period       | Jun. 22, 2021 to Jun. 28, 2021                                    |

**测试内容 Test Conducted:**  
根据客户的申请要求，具体要求详见下一页。  
As requested by the applicant, for details refer to next page(s)

批准 吴如妹  
Appr. 吴如妹  
实验室经理 Lab Manager

日期 2021.06.28 No. R460051691  
Date 2021.06.28

上海华测检测技术有限公司 上海市闵行区万芳路 1351 号  
Centre Testing International Pmhsao(Shanghai) Co., Ltd. No.1351, Wanfang Road, Minhang District, Shanghai, China



### Fire-fighting Suit



### Carpet

## GB/T 5454 Oxygen Index:

meridional 37.1%

zonal 36.5%



# Fire Retardant MB – PET based, P type



<https://ri.ppm-sz.cn/>

GB/T 5454 correspondent to ISO 4589

**SGS**

**TEST REPORT**

**SGS**

**TEST REPORT**

No. : SHMR240601244301  
Date : Jul 31, 2024  
Page: 2 of 5

Summary of Results:

| No. | Test Item        | Test Method                                    | Result                 | Conclusion |
|-----|------------------|--|------------------------|------------|
| 1   | Vertical Burning | UL 94-2023 Section 11 and Client's requirement | Classification : VTM-0 | /          |

Note: Pass : Meet the requirements;  
Fail : Does not meet the requirements;  
/ : Not Apply to the judgment.

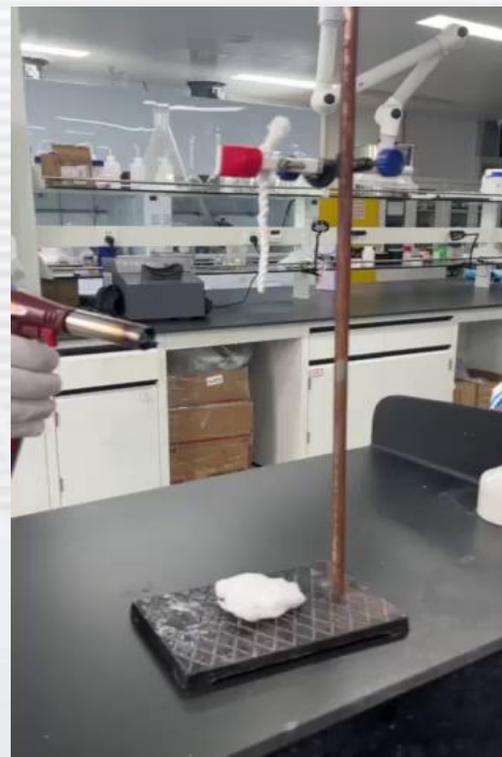
Original Sample Photo:



Original Sample-Sample A

**SGS**

Member of the SGS Group (SIS SA)



燃烧视频演示



- ❖ **Excellent FR performance** – oxygen index >32; reaching V-0 under UL-94
- ❖ Suitable for PET filament, staple fiber, industrial yarn, island type superfine filament, cationic and oil-free type, etc in high efficient FR required conditions
- ❖ **High stability and compatibility** – no significant impact to processability and strength of fiber, tear-strength up to 3.8cN/dtex.



## MB & DTY Fiber Sample



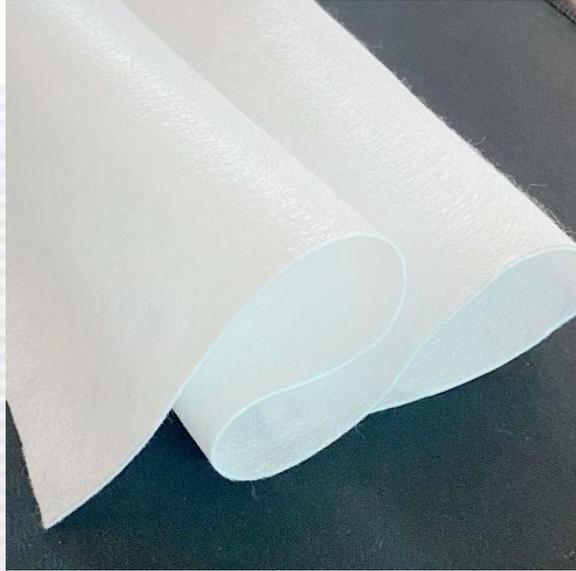
## Application



1. MB for making core or skin layer conductive fiber
2. Good compatibility, spinnability, high strength, anti-wear and-wash
3. Electrical resistivity can be  $10^{3\sim 4} \Omega/\text{cm}$  for PA based conductive fiber whereas  $10^{4\sim 6} \Omega/\text{cm}$  for PET based



## PP丝柔无纺布



## 应用



✓ **Function:**

Endow PP non-woven a soft sense which makes it more comfortable when wearing.

✓ **Application:**

Mainly used in PP non-woven products for children, ladies and in personal care.



# Anti-bacterial MB



<https://ri.ppm-sz.cn/>

GB/T 20944.3-2008 correspondent to ASTM E 2149



**SGS**

检测报告: ASH21-042792-02 发布日期: 2021年07月07日

检测样品描述: 样品ID: ASH21-042792.002 描述: 织物

检测结果: 检测要求: 对所送样品进行抗菌性检测 检测方法: GB/T 20944.3-2008 纺织品 抗菌性能的评价第3部分: 振荡法

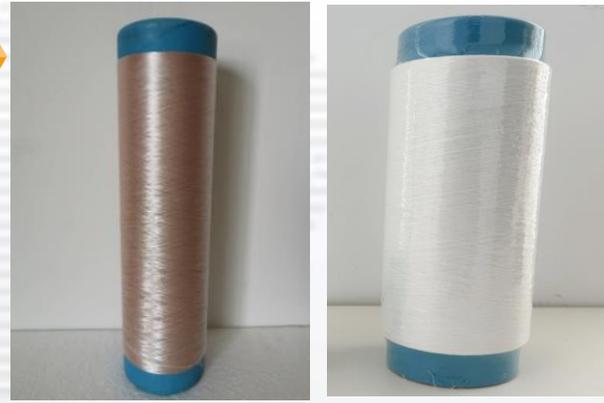
| 检测菌株                   | 白色念珠菌 ATCC 10231    | 大肠杆菌 8099           | 金黄色葡萄球菌 ATCC 6538   |
|------------------------|---------------------|---------------------|---------------------|
| 接种菌液浓度 (CFU/mL)        | 1.8x10 <sup>4</sup> | 2.2x10 <sup>4</sup> | 2.1x10 <sup>4</sup> |
| F                      | 1.3                 | 2.8                 | 2.6                 |
| WR (CFU/mL)            | 4.1x10 <sup>5</sup> | 1.4x10 <sup>7</sup> | 8.3x10 <sup>6</sup> |
| WO (CFU/mL)            | 1.9x10 <sup>4</sup> | 2.2x10 <sup>4</sup> | 2.1x10 <sup>4</sup> |
| OR (CFU/mL)            | <1                  | <1                  | <1                  |
| 抑菌率 (%)                | >99                 | >99                 | >99                 |
| GB/T 20944.3-2008 评价标准 | ≥60%                | ≥70%                | ≥70%                |
| 评价                     | 符合                  | 符合                  | 符合                  |

GB/T 20944.3-2008

Candidaalbicans ≥60% (Act. 99%)

Escherichia coli ≥70% (Act. 99%)

Staphylococcus aureus ≥70% (Act. 99%)



GB/T 20944.3-2008

Candidaalbicans ≥60% (Act. 95%)

Escherichia coli ≥70% (Act. 99%)

Staphylococcus aureus ≥70% (Act. 99%)



**广微测** Gmicro Testing

广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

分析检测结果

报告编号 (Report No.): 2020FM16953B02

| 测试生物                                      | 标准空白试样 经 180 分钟的活菌浓度 (cfu/mL) | 标准空白试样 经 180 分钟的活菌浓度 (cfu/mL) | 抗菌剂试样 经 180 分钟的活菌浓度 (cfu/mL) | 抑菌率 (%) | 标准要求 (%) |
|---|-------------------------------|-------------------------------|------------------------------|---------|----------|
| 大肠杆菌 (Escherichia coli) ATCC 25922        | 2.5x10 <sup>6</sup>           | 1.5x10 <sup>7</sup>           | 3.0x10 <sup>6</sup>          | 80      | ≥70      |
| 金黄色葡萄球菌 (Staphylococcus aureus) ATCC 6538 | 2.4x10 <sup>6</sup>           | 1.0x10 <sup>7</sup>           | 3.2x10 <sup>6</sup>          | 99      | ≥70      |
| 白色念珠菌 (Candida albicans) ATCC 10231       | 2.0x10 <sup>6</sup>           | 1.6x10 <sup>8</sup>           | 1.7x10 <sup>6</sup>          | 99      | ≥60      |

GB/T 20944.3-2008

Candidaalbicans ≥60% (Act. 99%)

Escherichia coli ≥70% (Act. 80%)

Staphylococcus aureus ≥70% (Act. 99%)



# Cooling MB



<https://ri.ppm-sz.cn/>

GB/T 25263 correspondent to JIS L 1927, CNS 15687

## Cooling MB & Fiber Sample



## Application





检测报告  
SL52405251780501TX

下列样品由客户提供并认为：  
苏州宝丽迪材料科技股份有限公司  
苏州市相城区北桥街道徐家观路29号

|           |                        |
|-----------|------------------------|
| 委托单位名称    | PET/涤纶/凉感面料            |
| 委托单位地址    | A: L377-1<br>B: L377-2 |
| 委托样品描述    | (A)纤维织物(涤纶)织物          |
| 颜色名称      | (A)凉感(B)凉感             |
| 纤维成分材料    | (A)PET(B)PET           |
| 纤维用途      | (A)凉感(B)凉感             |
| 样品数量      | (A)1(B)1               |
| 产品名称      | 凉感面料                   |
| 检验类别/样品来源 | 客户送检/客户寄件              |

样品接收日期: 2024-01-22  
检测日期: 2024-01-22 ~ 2024-01-29

检测依据: 行业标准/国家标准  
判定依据: GB/T 35263-2017 纺织品  
检测结论: 本检测方法符合国家标准要求

通标标准技术服务(上海)有限公司  
检测人: 徐岑松

徐岑松 (授权签字人)



检测报告  
SL52405251780501TX

检验检测报告  
No: SH2404102  
防伪查询网址: www.gttc.net.cn  
防伪码: PGBF-4137-05  
共2页 第1页

| 检测项目             | 判定 | 样品 | 4   |
|------------------|----|----|-----|
| 接触瞬间凉感性能(Cmax)   | 符合 | A  | 2JC |
| GB/T 35263-2017  |    |    | 2JC |
| ΔT=10°C, 反向朝向热检测 |    |    | 2JC |
| 接触瞬间凉感性能(Cmax)   | 符合 | B  | 2JC |
| GB/T 35263-2017  |    |    | 2JC |
| ΔT=10°C, 反向朝向热检测 |    |    | 2JC |

|                     |  |        |  |    |
|---------------------|--|--------|--|----|
| 检验项目(计量单位)          | 测试方法   | 标准值及允差 | 测试结果   | 判定 |
| 冷却后接触凉感系数 (J/cm²·s) | GB/T 35263-2017<br>试样材料: 聚苯乙<br>烯泡沫<br>仪器型号: Roaches<br>Q Max<br>试验条件:<br>20.1°C, 65.2%<br>热板温度: 35.0°C<br>冷却板温度: 20.0°C | ≥0.15  | 1# 0.324<br>2# 0.313<br>3# 0.316<br>4# 0.317<br>5# 0.320<br>平均值 0.32 | 符合 |

备注: 注: 按GB/T 8629-2017, 4N程序洗涤5次, 悬挂晾干。  
样品获取方式: 邮寄到样, 样品由客户提供。  
本报告中检验检测项目均在相应标准规定的环境下进行(有注明的除外)。  
如无特殊说明, 检验检测项目均符合国家标准要求。  
本报告检验检测地址为上海市松江区富源路300号12号楼。

## GB/T 35263-2017 Textile Cooling Performance Test & Evaluation:

- ✓ PET/PU fiber (85%/15%)  $q_{max} = 0.24 \text{ J/cm}^2 \cdot \text{S}$
- ✓ PA/PU fiber (91%/9%)  $q_{max} = 0.32 \text{ J/cm}^2 \cdot \text{S}$   
(higher than standard  $0.15 \text{ J/cm}^2 \cdot \text{S}$ )
- ✓ Excellent Spinnability

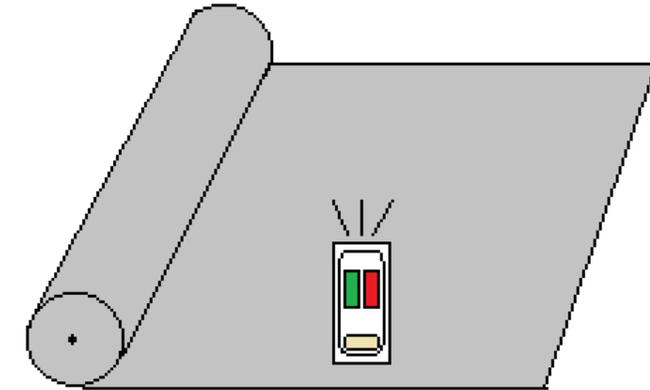


# Tracing MB

## 1<sup>st</sup> Generation



## 2<sup>nd</sup> Generation



### ✓ Application:

Currently it's been widely adopted in PET fiber mainly for tracing recycle material & anti-faking purpose.

### ✓ Product Specification:

Generation 1: Adding special tracing substance into fiber as contained in MB, special apparatus can then detect it quantitatively as well as qualitatively which helps rPET and PET makers.

Generation 2: New substance in the MB can emit light in visible/invisible band by absorbing electromagnetic wave launched by a designated stimulator. Thus this signal can be detected by eyes or detector.



# PET non-woven rigid MB

## Rigid PET non-woven



## Application: filtration material



✓ **Function:**

Endow PET non-woven a sense of rigid which makes it suitable for being used as filtration material.

✓ **Application:**

Currently this sort of filter is mainly used in home appliance, automotive air-conditioner.



# Photochromic MB



- ✓ The special ingredient in MB can respond to UV and turn into two colors in/outdoor which result in photochromic fiber.
- ✓ Available for PP, PLA and PET.





# ZnO anti-bacterial paste

- ✓ High purified active ZnO with special dispersant and modifier
- ✓ Special grinding and dispersing technology and horizontal sand mill

- ✓ Coating
- ✓ Cosmetics
- ✓ Textile

- ✓ **Textile**  
Anti-bacterial/UV for viscose fiber
- ✓ **Coating**  
Anti-bacterial/aging





PPM Key for Success

# Cost Efficiency



**Innovation** is the key for continuous development. PPM focuses on **high quality coloring** and **functional improvement** for chemical fiber products



## Technology Advantage

PPM Research Institute gathers Top Industry Technology Talents

## Branding

Full-fledged laboratory & test center granted CNAS certification

## Scale of Economy

MB production capacity 100KTPA  
Bargaining power for raw material





# Quality Management Certification



**Intertek**  
Total Quality Assured.  
Intertek Testing Services NA, Inc.  
900 Chestnut Street  
Lowell MA 01851

**Scope Certificate**  
Scope Certificate Number ITS-TE-00062893-GRS-02351000  
Scope Certificate Version Number ITS-TE-00062893-GRS-02351000

Intertek certifies that

**Poly Plastic Masterbatch (Suzhou) Co., Ltd**  
Textile Exchange-ID (TE-ID): TE-00062893  
License Number: TE-00062893  
No. 29, Xujiaguan Road, Beiqiao Street, Xiangcheng District, Suzhou City, 215144, Jiangsu Province, China

has been audited and found to be in conformity with the  
**GLOBAL RECYCLED STANDARD 4.0 (GRS 4.0)**

Product categories mentioned below (and further specified in the product appendix) conform with the standard(s):  
**Processed post-consumer materials (PC0035); Processed pre-consumer materials (PC0041)**  
Process categories carried out under responsibility of the above mentioned organization for the certified products cover:  
**Warehousing, distribution (PRO031), Extrusion (PRO010)**  
\*The processes marked with an asterisk may be carried out by subcontractors

This certificate is valid until: 2025-07-15  
Audit criteria:

Place and Date of Issue  
Lowell, MA, USA, 2024-07-16  
Last Updated: 2024-07-16  
Extended Until:  
Status: Valid

**Cain Moldovean**  
President, Business Assurance

Certification Body Licensed by: Textile Exchange; Licensing Code: CB175  
Certification Body Accredited by: ANAB; Accreditation Number: 0204  
Inspection Body: Intertek Testing Services Ltd, Shanghai  
Auditor(s): N/A

This scope certificate provides no proof that any goods delivered by its holder are GRS certified. Proof of GRS certification of goods delivered is provided by a valid transaction certificate (TC) or equivalent covering them.  
The issuing body may withdraw this certificate before it expires if the declared conformity is no longer guaranteed.  
To authenticate this certificate, please visit [www.TextileExchange.org/Certificates](http://www.TextileExchange.org/Certificates)

**CQM**  
China Quality Mark

**质量管理体系认证证书**

证书编号: 00224Q25669R2M

兹证明

**苏州宝丽迪材料科技股份有限公司**

统一社会信用代码: 913205077439440375  
住所: 江苏省苏州市相城区北桥街道徐家观路 29 号  
认证地址: 江苏省苏州市相城区北桥街道徐家观路 29 号

管理体系符合  
**GB/T 19001-2016/ISO 9001:2015**

覆盖的范围  
化学纤维母粒、薄膜母粒、塑料母粒的设计开发、生产

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