



Topester™ 463RM

Copolyester Thermoplastic Elastomer

Product Description

Topester™ 463RM is a Copolyester Thermoplastic Elastomer (TPC) resin in the family of Thermoplastic Elastomer (TPE). This material can be widely used in automotive, industrial, wire & cable, consumer, polymer modification, etc. This grade is designed for extrusion and injection molding. It is completely recyclable.

General

| | | |
|------------|------------------|------------------|
| Appearance | √Natural Color | |
| Feature | √Heat Resistance | √Good Resilience |
| Compliance | √RoHS | √REACH |
| Form | √Pellet | |
| Packaging | √25kg/bag | |

Technical Property

| Typical Properties | Typical Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Hardness | 63 | Shore D | ISO 868 |
| Density | 1.22 | g/cm ³ | ISO 1183 |
| Melt Index (230°C x 2.16kg) | 12 | g/10min | ISO 1133 |
| Flexural Modulus | 320 | MPa | ISO 178 |
| Tensile Stress at break | 40 | MPa | ISO 527 |
| Elongation at Break | 480 | % | ISO 527 |
| Charpy Notched Impact Strength at 23°C | No break | KJ/m ² | ISO 179 |
| Charpy Notched Impact Strength at -30°C | 18 | KJ/m ² | ISO 179 |
| Melting Temperature | 212 | °C | ISO11357 |
| Vicat Softening Temperature, 10N | 195 | °C | ISO 306 |
| Volume Resistivity | 9.0E+13 | Ohm*cm | IEEC 60093 |
| Water Absorption, 24hr | 0.3 | % | ISO 62 |
| Shrinkage | 1.6 | % | ISO 294 |

The data are not to be defined as specifications

Processing Information

| Extrusion | Typical Value |
|--------------------------|----------------------|
| Rear Temperature | 180-220°C |
| Middle Temperature | 220-250°C |
| Front Temperature | 220-250°C |
| Head Temperature | 220-250°C |
| Die Temperature | 220-250°C |
| Injection Molding | Typical Value |
| Rear Temperature | 180-220°C |
| Middle Temperature | 220-250°C |
| Front Temperature | 220-250°C |
| Nozzle Temperature | 220-250°C |
| Mold Temperature | 20-60°C |

Notes:

- 1) The product is incompatible with PVC. Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) Polyethylene (PE) or Polypropylene (PP).
- 2) Color concentrate with Copolyester based carrier is recommended.
- 3) Drying is required for 3-5 hours at 110°C

Contact Information

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Rev.2016-05-30