



Topester™ 445RM

Copolyester Thermoplastic Elastomer

Product Description

Topester™ 445RM 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	45	Shore D	ISO 868
Density	1.15	g/cm ³	ISO 1183
Melt Index (230°C x 2.16kg)	10	g/10min	ISO 1133
Flexural Modulus	100	MPa	ISO 178
Tensile Stress at break	26	MPa	ISO 527
Elongation at Break	690	%	ISO 527
Charpy Notched Impact Strength at 23°C	No break	KJ/m ²	ISO 179
Charpy Notched Impact Strength at -30°C	No break	KJ/m ²	ISO 179
Melting Temperature	210	°C	ISO11357
Vicat Softening Temperature, 10N	155	°C	ISO 306
Volume Resistivity	1.0E+13	Ohm*cm	IEEC 60093
Water Absorption, 24hr	0.5	%	ISO 62
Shrinkage	1.4	%	ISO 294

The data are not to be defined as specifications

Processing Information

Extrusion	Typical Value
Rear Temperature	180-200°C
Middle Temperature	210-240°C
Front Temperature	210-240°C
Head Temperature	210-240°C
Die Temperature	210-240°C
Injection Molding	Typical Value
Rear Temperature	180-200°C
Middle Temperature	210-240°C
Front Temperature	210-240°C
Nozzle Temperature	210-240°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

Top Polymer Enterprise Ltd
tpe@topolymer.com
www.topolymer.com

10 Xiyuan Rd, Tianmuhu Industrial Park
Liyang, Jiangsu
China
Tel: +86 (519) 8796 6118
Fax: +86 (519) 8796 6228

Zhen An Hi-tech Park,
Chang An, Dongguan, Guangdong
China
Tel: +86 (769) 8584 6000
Fax: +86 (769) 8584 6001

All information supplied by or on behalf of Top Polymer in relation to its products, whether in nature of data, recommendations or otherwise, is supported by research and believed reliable, but Top Polymer assumes no liability whatever in respect of application, processing or use made of the mentioned information or products, or any consequence. The buyer shall undertake all liability in respect of the application, processing or use of the mentioned information or products, or any consequence.
Rev.2016-05-30