



Topester™ 455RL

Copolyester Thermoplastic Elastomer

Product Description

Topester™ 455RL 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	55	Shore D	ISO 868
Density	1.19	g/cm ³	ISO 1183
Melt Index (230°C x 2.16kg)	19	g/10min	ISO 1133
Flexural Modulus	220	MPa	ISO 178
Tensile Stress at break	36	MPa	ISO 527
Elongation at Break	570	%	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	204	°C	ISO11357
Vicat Softening Temperature, 10N	180	°C	ISO 306
Volume Resistivity	4.0E+13	Ohm*cm	IEEC 60093
Water Absorption, 24hr	0.4	%	ISO 62
Shrinkage	1.6	%	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

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