Topester™ 455RM
Copolyester Thermoplastic Elastomer

Product Description
Topester™ 455RM 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^{0}C x 2.16kg)	10	g/10min	ISO 1133
Flexual Modulus	220	MPa	ISO 178
Tensile Stress at break	37	MPa	ISO 527
Elongation at Break	590	%	ISO 527
Charpy Notched Impact Strength at 23^{0}C	No break	KJ/m^2	ISO 179
Charpy Notched Impact Strength at -30℃	No break	KJ/m^2	ISO 179
Melting Temperature	204	^{0}C	ISO11357
Vicat Softening Temperature, 10N	180	^{0}C	ISO 306
Volume Resistivity	4.0E+13	Ohm*cm	IEEC 60093
Water Absorption, 24hr	0.4	%	ISO 62
Shrinkage	1.5	%	ISO 294

The data are not to be defined as specifications

Processing Information

Extrusion	Typical Value
Rear Temperature	180-200℃
Middle Temperature	210-240℃
Front Temperature	210-240℃
Head Temperature	210-240℃
Die Temperature	210-240℃
Injection Molding	**Typical Value**
Rear Temperature	180-200℃
Middle Temperature	210-240℃
Front Temperature	210-240℃
Nozzle Temperature	210-240℃
Mold Temperature	20-60℃

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^{0}C

Contact Information

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