



Topester™ 445CB

Copolyester Thermoplastic Elastomer

Product Description

Topester™ 445CB is a TPE compound based on Copolyester Thermoplastic Elastomer (TPC). This material can be widely used in automotive, industrial and consumer applications where high heat resistance is required. This grade is designed for blow molding and extrusion. 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)	1	g/10min	ISO 1133
Flexural Modulus	110	MPa	ISO 178
Tensile Stress at break	27	MPa	ISO 527
Elongation at Break	530	%	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	8.0E+12	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	190-210°C
Middle Temperature	200-240°C
Front Temperature	210-240°C
Head Temperature	210-240°C
Die Temperature	230-240°C
Blow Molding	Typical Value
Rear Temperature	190-210°C
Middle Temperature	210-240°C
Front Temperature	210-240°C
Die or Nozzle Temperature	230-240°C
Mold Temperature	20-55°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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