



Topolymer[®] MC-453T

Styrenic Thermoplastic Elastomer

Product Description

Topolymer[®] MC-453T is a TPE compound based on Styrenic Block Copolymer (SBC). This material can be used in the medical application of ring-pull cap. This grade is designed for injection molding. It is completely recyclable.

General

Appearance	√Transparent		
Feature	√Dimensional Stability	√Tear Resistance	√Heat Resistance
Compliance	√RoHS	√REACH	√FDA
	√USP VI	√ISO 10993	
Form	√Pellet		
Packaging	√25kg/bag		

Technical Property

Typical Properties	Typical Value	Unit	Test Method
Hardness	45	Shore D	ASTM D-2240
Density	0.9	g/cm ³	ASTM D-792
Tensile Strength at break	23	MPa	ASTM D-412
Tensile Strength at 100%	10	MPa	ASTM D-412
Elongation at Break	788	%	ASTM D-412
Tear Strength	95	KN/m	ASTM D624

The data are not to be defined as specifications

Processing Information

Injection	Typical Value
Rear Temperature	160-180°C
Middle Temperature	170-190°C
Front Temperature	180-200°C
Nozzle Temperature	180-200°C
Mold Temperature	30-50°C
Injection Rate	Medium
Back Pressure	0.35-0.7MPa
Screw Speed	30-80rpm
Screw L/D Ratio	22:1
Screw Compression Ratio	2:1-4:1

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 PP, LDPE or EVA based carrier is recommended.
- 3) Drying is not required. However, if moisture is a problem or to get better appearance, dry pellets for 3 hours at 60°C.

Contact Information

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