



Topthane™ 2180E

Urethane Thermoplastic Elastomer

Product Description

Topthane™ 2180E is a polyester-based Urethane Thermoplastic Elastomer resin in the family of Thermoplastic Elastomer (TPE). The product can be widely used in pipe, wire and cable, conveyor belt, sports gear, electronics, polymer modification, etc. This grade is designed for Extrusion. It is completely recyclable.

General

Appearance	√Clear		
Feature	√Low Temperature Flexibility	√Abrasion Resistance	√Tear Resistance
	√Oil And Chemical Resistance	√Extrusion Stability	
Compliance	√RoHS	√REACH	
Form	√Pellet		
Packaging	√25kg/bag		

Technical Property

Typical Properties	Typical Value	Unit	Test Method
Hardness	80	Shore A	ASTM D2240
Density	1.17	g/cm ³	ASTM D792
Tensile Strength at break	30.6	MPa	ASTM D412
Tensile Strength at 100%	5.1	MPa	ASTM D412
Tensile Strength at 300%	8.7	MPa	ASTM D412
Elongation at Break	800	%	ASTM D412
Tear Strength	71.4	KN/m	ASTM D624

The data are not to be defined as specifications.

Processing Information

Extrusion	Typical Value
Rear Temperature	170-180°C
Middle Temperature	180-200°C
Front Temperature	190-210°C
Die Temperature	190-200°C
Recommended Filter Mesh	80/120/80 mesh
Screw Rotation Rate	20-40 rpm

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 TPU based carrier is recommended.
- 3) The product needs to be dry before use, dry pellets for 3-4 hours at 90-110°C.

Contact Information

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