



# Topthane™ 2190

## Urethane Thermoplastic Elastomer

### Product Description

Topthane™ 2190 is a polyester-based Urethane Thermoplastic Elastomer resin in the family of Thermoplastic Elastomer (TPE). The product can be widely used in automotive accessories, protective cases, electronics, sports gear, seals, shoe parts and other applications where flexibility is needed. This grade is designed for injection molding. It is completely recyclable.

### General

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

### Technical Property

Typical Properties	Typical Value	Unit	Test Method
Hardness	90	Shore A	ASTM D2240
Density	1.19	g/cm <sup>3</sup>	ASTM D792
Tensile Strength at break	41.8	MPa	ASTM D412
Tensile Strength at 100%	10.2	MPa	ASTM D412
Tensile Strength at 300%	20.4	MPa	ASTM D412
Elongation at Break	650	%	ASTM D412
Tear Strength	112.2	KN/m	ASTM D624

The data are not to be defined as specifications.

## Processing Information

Injection	Typical Value
Rear Temperature	180-190°C
Middle Temperature	190-210°C
Front Temperature	200-220°C
Nozzle Temperature	205-215°C
Screw Speed	50-80rpm
Back Pressure	0.3-0.6MPa
Injection Pressure	50-100MPa
Holding Pressure	30-60MPa
Injection Rate	Slow

**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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