

Samyang Triel[®] 5450 Thermoplastics Polyetherester Elastomer, General Extrusion

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester, TP , Polyether Ester Elastomer

Material Notes:

Excellent mechanical characteristics, elasticity, thermal resistance and chemical resistance. 5450 is an extrusion grade. Information provided by Samyang.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Triel-5450-Thermoplastics-Polyetherester-Elastomer-General-Extrusion.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Water Absorption	0.50 %	0.50 %	ASTM D570
Linear Mold Shrinkage	0.015 - 0.017 cm/cm	0.015 - 0.017 in/in	ASTM D955
Melt Flow	11 g/10 min	11 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 Å°C	@Load 4.76 lb, Temperature 446 Å°F	
	11 g/10 min	11 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 240 Å°C	@Load 4.76 lb, Temperature 464 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	ASTM D2240
Tensile Strength, Ultimate	20.6 MPa	2990 psi	ASTM D638
Tensile Strength, Yield	5.88 MPa	853 psi	ASTM D638
	@Strain 5.00 %	@Strain 5.00 %	
	8.34 MPa	1210 psi	ASTM D638
	@Strain 10.0 %	@Strain 10.0 %	
	12.7 MPa	1850 psi	ASTM D638
	@Strain 50.0 %	@Strain 50.0 %	
Flexural Yield Strength	5.39 MPa	782 psi	ASTM D790
Flexural Modulus	0.0902 GPa	13.1 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 Å°C	@Thickness 0.125 in, Temperature -40.0 Å°F	

Mechanical Properties	Metric	English	Comments
	@Thickness 3.17 mm, Temperature 23.0 Â°C	@Thickness 0.125 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	210 Â°C	410 Â°F	ASTM D2117
Deflection Temperature at 0.46 MPa (66 psi)	73.0 Â°C	163 Â°F	ASTM D648
Vicat Softening Point	161 Â°C	322 Â°F	ASTM D1525

Descriptive Properties	Value	Comments
Flexible Rate	> 400%	ASTM D638

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