

## Samyang Triel® 5600 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.5600 is an extrusion grade.Information provided by Samyang.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samyang-Triel-5600-Thermoplastics-Polyetherester-Elastomer-General-Extrusion.php](http://www.lookpolymers.com/polymer_Samyang-Triel-5600-Thermoplastics-Polyetherester-Elastomer-General-Extrusion.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Water Absorption	0.50 %	0.50 %	ASTM D570
Linear Mold Shrinkage	0.017 - 0.020 cm/cm	0.017 - 0.020 in/in	ASTM D955
Melt Flow	12 g/10 min	12 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 Å°C	@Load 4.76 lb, Temperature 446 Å°F	
	12 g/10 min	12 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	60	60	ASTM D2240
Tensile Strength, Ultimate	30.9 MPa	4480 psi	ASTM D638
Tensile Strength, Yield	14.2 MPa	2060 psi	ASTM D638
	@Strain 5.00 %	@Strain 5.00 %	
	18.6 MPa	2700 psi	ASTM D638
	@Strain 10.0 %	@Strain 10.0 %	
	20.6 MPa	2990 psi	ASTM D638
	@Strain 50.0 %	@Strain 50.0 %	
Flexural Yield Strength	12.3 MPa	1780 psi	ASTM D790
Flexural Modulus	0.260 GPa	37.7 ksi	ASTM D790
Izod Impact, Notched	1.47 - 1.77 J/cm	2.76 - 3.31 ft-lb/in	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	209 Â°C	408 Â°F	ASTM D2117
Deflection Temperature at 0.46 MPa (66 psi)	108 Â°C	226 Â°F	ASTM D648
Vicat Softening Point	193 Â°C	379 Â°F	ASTM D1525

Descriptive Properties	Value	Comments
Flexible Rate	> 400%	ASTM D638

## Contact Songhan Plastic Technology Co.,Ltd.

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