

Samyang Triel® 5501BM Thermoplastics Polyetherester Elastomer, Blow Molding

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

Material Notes:

Excellent mechanical characteristics, elasticity, thermal resistance and chemical resistance. 5501BM is for blow molding applications. Applications: Automotive Bellows Information provided by Samyang.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Triel-5501BM-Thermoplastics-Polyetherester-Elastomer-Blow-Molding.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	2.5 g/10 min @Load 2.16 kg, Temperature 230 °C	2.5 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ASTM D2240
Tensile Strength, Yield	3.92 MPa @Strain 5.00 %	569 psi @Strain 5.00 %	ASTM D638
	7.85 MPa @Strain 10.0 %	1140 psi @Strain 10.0 %	ASTM D638
	12.7 MPa @Strain 50.0 %	1850 psi @Strain 50.0 %	ASTM D638
Flexural Yield Strength	6.86 MPa	996 psi	ASTM D790
Flexural Modulus	0.118 GPa	17.1 ksi	ASTM D790
Izod Impact, Notched	NB @Thickness 3.17 mm, Temperature -40.0 °C	NB @Thickness 0.125 in, Temperature -40.0 °F	ASTM D256
	NB @Thickness 3.17 mm, Temperature 23.0 °C	NB @Thickness 0.125 in, Temperature 73.4 °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)	86.0 Â°C	187 Â°F	ASTM D648
Vicat Softening Point	174 Â°C	345 Â°F	ASTM D1525

Descriptive Properties	Value	Comments
Flexible Rate	> 400%	ASTM D638

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