

Samyang Triel® 5652EM Thermoplastics Polyetherester Elastomer, Extrusion

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

Material Notes:

Excellent mechanical characteristics, elasticity, thermal resistance and chemical resistance.5652EM is an extrusion grade.Information provided by Samyang.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Triel-5652EM-Thermoplastics-Polyetherester-Elastomer-Extrusion.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 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	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Ultimate	34.3 MPa	4980 psi	ASTM D638
Flexural Yield Strength	16.2 MPa	2350 psi	ASTM D790
Flexural Modulus	0.358 GPa	51.9 ksi	ASTM D790
Izod Impact, Notched	0.785 - 0.981 J/cm @Thickness 3.17 mm, Temperature -40.0 °C	1.47 - 1.84 ft-lb/in @Thickness 0.125 in, Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	205 °C	401 °F	ASTM D2117
Deflection Temperature at 0.46 MPa (66 psi)	117 °C	243 °F	ASTM D648
Vicat Softening Point	200 °C	392 °F	ASTM D1525

Descriptive Properties	Value	Comments
Flexible Rate	> 400%	ASTM D638

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