

Samyang Triel® 5302FR Thermoplastics Polyetherester Elastomer, Non-Halogen Flame Retardancy

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

Material Notes:

Excellent mechanical characteristics, elasticity, thermal resistance and chemical resistance. 5302FR is a non-halogen, flame retardant grade. Information provided by Samyang.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Triel-5302FR-Thermoplastics-Polyetherester-Elastomer-Non-Halogen-Flame-Retardancy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 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	30 - 33 g/10 min @Load 2.16 kg, Temperature 230 °C	30 - 33 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	30	30	ASTM D2240
Tensile Strength, Ultimate	12.3 MPa	1780 psi	ASTM D638
Flexural Yield Strength	2.26 MPa	327 psi	ASTM D790
Flexural Modulus	0.0275 GPa	3.98 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	180 °C	356 °F	ASTM D2117
Vicat Softening Point	90.0 °C	194 °F	ASTM D1525

Descriptive Properties	Value	Comments
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Flexible Rate Descriptive Properties	> 400% Value	ASTM D638 Comments
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