

## Samyang Triel® 5552EM 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. 5552EM is an extrusion grade. Information provided by Samyang.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samyang-Triel-5552EM-Thermoplastics-Polyetherester-Elastomer-Extrusion.php](http://www.lookpolymers.com/polymer_Samyang-Triel-5552EM-Thermoplastics-Polyetherester-Elastomer-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	10 - 14 g/10 min @Load 2.16 kg, Temperature 230 °C	10 - 14 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	ASTM D2240
Tensile Strength, Ultimate	26.5 MPa	3840 psi	ASTM D638
Flexural Yield Strength	9.32 MPa	1350 psi	ASTM D790
Flexural Modulus	0.178 GPa	25.7 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	207 °C	405 °F	ASTM D2117
Deflection Temperature at 0.46 MPa (66 psi)	102 °C	216 °F	ASTM D648
Vicat Softening Point	185 °C	365 °F	ASTM D1525

Descriptive Properties	Value	Comments
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Descriptive Properties

Value

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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