

Samyang Trirex® 3027PU(X) Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Extruded

Material Notes:

PC is characterized by its excellent impact resistance, dimensional stability and excellent thermal resistance. 3027PU(X) is an extrusion grade. Information provided by Samyang.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Trirex-3027PUX-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	6.0 g/10 min @Load 1.20 kg, Temperature 300 Â°C	6.0 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength	68.6 MPa	9960 psi	ASTM D638
Elongation at Break	130 %	130 %	ASTM D638
Flexural Yield Strength	88.3 MPa	12800 psi	ASTM D790
Flexural Modulus	2.16 GPa	313 ksi	ASTM D790
Izod Impact, Notched	8.34 J/cm @Thickness 3.17 mm	15.6 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 70.0 Âµm/m-Â°C	27.8 - 38.9 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	147 Â°C	297 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	136 Â°C	277 Â°F	ASTM D648
Flammability, UL94	V-2 @Thickness 1.50 mm	V-2 @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+16 ohm-cm	4.00e+16 ohm-cm	ASTM D257
Dielectric Constant	2.85	2.85	ASTM D150
Dielectric Strength	30.0 kV/mm	762 kV/in	ASTM D149
Dissipation Factor	0.0092	0.0092	ASTM D150
Arc Resistance	120 sec	120 sec	ASTM D495

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