

Samyang Trirex[®] 3025GN10 Polycarbonate, Reinforced Flame Retardancy

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled

Material Notes:

PC is characterized by its excellent impact resistance, dimensional stability and excellent thermal resistance. 3025GN10 is a reinforced flame retardant grade. Applications: LCD Panel Frame (dimensional stability) Information provided by Samyang.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Trirex-3025GN10-Polycarbonate-Reinforced-Flame-Retardancy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Water Absorption	0.13 %	0.13 %	ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
Melt Flow	10 g/10 min @Load 1.20 kg, Temperature 300 Â°C	10 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength	78.5 MPa	11400 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Yield Strength	98.1 MPa	14200 psi	ASTM D790
Flexural Modulus	3.14 GPa	455 ksi	ASTM D790
Izod Impact, Notched	0.392 J/cm @Thickness 3.17 mm	0.735 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	43.0 Âµm/m-Â°C	23.9 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	155 Â°C	311 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	144 Â°C	291 Â°F	ASTM D648
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+16 ohm-cm	4.00e+16 ohm-cm	ASTM D257
Dielectric Constant	2.97	2.97	ASTM D150
Dielectric Strength	31.0 kV/mm	787 kV/in	ASTM D149
Dissipation Factor	0.0096	0.0096	ASTM D150
Arc Resistance	120 sec	120 sec	ASTM D495

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