

Samyang Trirex® 3500G30 Polycarbonate, 30% Glass Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 30% Glass Filled

Material Notes:

TRIEX® polycarbonate resins offer superior transparency, mechanical properties, good dimensional stability and high electrical performance, which allows it to be widely used for electrical, electronic, appliance, automotive and optical industries. Characteristics: Medium viscosity 30% glass fiber Applications: 3025R type reinforced by glass fiber (short fiber). particularly suitable for injection molding where especially good dimensional stability is required All information provided by Samyang

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Trirex-3500G30-Polycarbonate-30-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Water Absorption	0.15 % @Time 86400 sec	0.15 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm @Thickness 3.00 mm	0.0030 - 0.0050 in/in @Thickness 0.118 in	ASTM D955
Melt Flow	4.5 g/10 min @Load 1.20 kg, Temperature 300 °C	4.5 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	127 MPa	18500 psi	ASTM D638
Elongation at Break	9.0 %	9.0 %	ASTM D638
Flexural Yield Strength	186 MPa	27000 psi	ASTM D790
Flexural Modulus	6.86 GPa	996 ksi	ASTM D790
Izod Impact, Unnotched	2.06 J/cm @Thickness 3.17 mm	3.86 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	19.0 µm/m-°C	10.6 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	152 °C	306 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	148 °C	298 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.59 mm	@Thickness 0.0625 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+16 ohm-cm	4.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.29	3.29	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	31.0 kV/mm	787 kV/in	ASTM D149
Dissipation Factor	0.0097	0.0097	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	120 sec	120 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	280 - 300 Â°C	536 - 572 Â°F	
Middle Barrel Temperature	280 - 300 Â°C	536 - 572 Â°F	
Front Barrel Temperature	280 - 300 Â°C	536 - 572 Â°F	
Nozzle Temperature	290 - 310 Â°C	554 - 590 Â°F	
Melt Temperature	300 - 310 Â°C	572 - 590 Â°F	
Drying Temperature	120 Â°C	248 Â°F	
Dry Time	3 - 5 hour	3 - 5 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	
Screw Speed	30 - 80 rpm	30 - 80 rpm	

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