

Samyang Trirex® 3025GRU10 Polycarbonate, 10% Glass Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% 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: 10% milled glass fiber Applications: Particularly suitable for camera parts. All information provided by Samyang

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Trirex-3025GRU10-Polycarbonate-10-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Water Absorption	0.13 % @Time 86400 sec	0.13 % @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	15 g/10 min @Load 1.20 kg, Temperature 300 °C	15 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	58.8 MPa	8530 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Yield Strength	98.1 MPa	14200 psi	ASTM D790
Flexural Modulus	2.45 GPa	356 ksi	ASTM D790
Izod Impact, Unnotched	0.785 J/cm @Thickness 3.17 mm	1.47 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	43.0 µm/m-°C	23.9 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	134 °C	273 °F	ASTM D648

Thermal Properties	^{HB} Metric	^{HB} English	Comments
	@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	2.97	2.97	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	0.0096	0.0096	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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China