

## Samyang Trirex® 3025GRU30 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: 30% 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-3025GRU30-Polycarbonate-30-Glass-Reinforced.php](http://www.lookpolymers.com/polymer_Samyang-Trirex-3025GRU30-Polycarbonate-30-Glass-Reinforced.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Water Absorption	0.12 %	0.12 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	25 g/10 min	25 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	78.5 MPa	11400 psi	ASTM D638
Elongation at Break	9.0 %	9.0 %	ASTM D638
Flexural Yield Strength	98.1 MPa	14200 psi	ASTM D790
Flexural Modulus	3.33 GPa	484 ksi	ASTM D790
Izod Impact, Unnotched	0.981 J/cm	1.84 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

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)	150 °C	302 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	144 °C	291 °F	ASTM D648

Thermal Properties	Metric	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	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 °C	536 - 572 °F	
Middle Barrel Temperature	280 - 300 °C	536 - 572 °F	
Front Barrel Temperature	280 - 300 °C	536 - 572 °F	
Nozzle Temperature	290 - 310 °C	554 - 590 °F	
Melt Temperature	300 - 310 °C	572 - 590 °F	
Drying Temperature	120 °C	248 °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.

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