

Samyang Trirex[®] 3022L1 Polycarbonate, Lens Grade

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Optical Grade

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: Low viscosity Applications: Suitable for Automotive Lenses All information provided by Samyang

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Trirex-3022L1-Polycarbonate-Lens-Grade.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
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	14 g/10 min	14 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	120	120	ASTM D785
Tensile Strength, Yield	66.7 MPa	9670 psi	ASTM D638
Elongation at Break	120 %	120 %	ASTM D638
Flexural Yield Strength	86.3 MPa	12500 psi	ASTM D790
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
Izod Impact, Unnotched	7.85 J/cm	14.7 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear	56.0 µm/m-°C	31.1 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	V-2 Metric	V-2 English	Comments
	@Thickness 1.59 mm	@Thickness 0.0625 in	

Optical Properties	Metric	English	Comments
Refractive Index	1.585	1.585	ASTM D542
Haze	1.5 % @Thickness 3.00 mm	1.5 % @Thickness 0.118 in	ASTM D1003
Transmission, Visible	89.7 %	89.7 %	ASTM D1003

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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