

Samyang Trirex® PC-3025N2 10 MFI Flame Retardant Clear Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, Flame Retardant

Material Notes:

Information provided by US distributor Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Trirex-PC-3025N2-10-MFI-Flame-Retardant-Clear-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Water Absorption	0.15 %	0.15 %	24 hours at 73°F
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	10 g/10 min @Load 1.20 kg, Temperature 300 °C	10 g/10 min @Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	63.5 MPa @Thickness 3.17 mm	9210 psi @Thickness 0.125 in	
Elongation at Break	100 % @Thickness 3.17 mm	100 % @Thickness 0.125 in	
Flexural Yield Strength	84.0 MPa @Thickness 3.17 mm	12200 psi @Thickness 0.125 in	
Flexural Modulus	3.10 GPa @Thickness 3.17 mm	450 ksi @Thickness 0.125 in	
Izod Impact, Notched	5.87 J/cm @Thickness 3.17 mm	11.0 ft-lb/in @Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 3.17 mm	V-0 @Thickness 0.125 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	>= 86 %	>= 86 %	ASTM D1003
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+16 ohm-cm	4.00e+16 ohm-cm	ASTM D257
Dielectric Constant	2.8	2.8	ASTM D150
Dielectric Strength	30.0 kV/mm	762 kV/in	ASTM D149
	@Thickness 3.00 mm	@Thickness 0.118 in	
Dissipation Factor	0.0082	0.0082	ASTM D150
Arc Resistance	120 sec	120 sec	High Voltage, Low Current; ASTM D495
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	266 - 282 Â°C	510 - 540 Â°F	
Middle Barrel Temperature	271 - 288 Â°C	520 - 550 Â°F	
Front Barrel Temperature	282 - 304 Â°C	540 - 580 Â°F	
Nozzle Temperature	277 - 310 Â°C	530 - 590 Â°F	
Melt Temperature	288 - 316 Â°C	550 - 600 Â°F	
Mold Temperature	71.1 - 110 Â°C	160 - 230 Â°F	
Drying Temperature	121 Â°C	250 Â°F	
Dry Time	3 - 4 hour	3 - 4 hour	
Injection Pressure	82.7 - 124 MPa	12000 - 18000 psi	
Back Pressure	0.345 - 1.38 MPa	50.0 - 200 psi	
Clamp Pressure	27.6 - 68.9 MPa	4000 - 10000 psi	
Cycle Time - Injection	1.0 - 2.5 sec	1.0 - 2.5 sec	
Cycle Time - Cooling	5.0 - 40 sec	5.0 - 40 sec	
Vent Depth	0.00200 - 0.00800 cm	0.000787 - 0.00315 in	
Screw Speed	40 - 70 rpm	40 - 70 rpm	

Descriptive Properties	Value	Comments
Injection Speed- Edge Gate	Slow-Medium	
Injection Speed- Tab Gate	Medium-Fast	
Injection Speed- Tunnel Gate	Fast	
Shot Size	40-60%	

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