

PTS Tristar® PC-05GFR 5% Glass Reinforced Polycarbonate With Release

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Glass Fiber Filled, Flame Retardant

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_PTS-Tristar-PC-05GFR-5-Glass-Reinforced-Polycarbonate-With-Release.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; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	58.6 MPa @Thickness 3.17 mm	8500 psi @Thickness 0.125 in	ASTM D638
Elongation at Break	15 % @Thickness 3.17 mm	15 % @Thickness 0.125 in	ASTM D638
Flexural Yield Strength	93.1 MPa @Thickness 3.17 mm	13500 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	2.48 GPa @Thickness 3.17 mm	360 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	1.33 J/cm @Thickness 3.17 mm	2.49 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	ASTM D648
UL RTI, Electrical	125 °C	257 °F	
UL RTI, Mechanical with Impact	115 °C	239 °F	
UL RTI, Mechanical without Impact	125 °C	257 °F	
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
	V-0	V-0	

Thermal Properties	Metric @ Thickness 6.00 mm	English @ Thickness 0.236 in	Comments
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Electrical Properties	Metric	English	Comments
Arc Resistance	0.00 - 60 sec	0.00 - 60 sec	PLC 7
Comparative Tracking Index	175 - 250 V	175 - 250 V	PLC 3
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	PLC 2
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	PLC 0
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	PLC 3

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	221 - 249 °C	430 - 480 °F	
Middle Barrel Temperature	266 - 293 °C	510 - 560 °F	
Front Barrel Temperature	277 - 299 °C	530 - 570 °F	
Nozzle Temperature	249 - 288 °C	480 - 550 °F	
Melt Temperature	271 - 299 °C	520 - 570 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	
Drying Temperature	121 °C	250 °F	
Dry Time	3 - 4 hour	3 - 4 hour	48 hours max.
Back Pressure	0.345 - 1.38 MPa	50.0 - 200 psi	

Descriptive Properties	Value	Comments
Injection Speed- Edge Gate	Fast	
Injection Speed- Tab Gate	Fast	
Injection Speed- Tunnel Gate	Fast	

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