

PTS Tristar® PC-30GFR 30% Glass Reinforced Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 30% Glass Filled

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-30GFR-30-Glass-Reinforced-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Water Absorption	0.12 %	0.12 %	24 hrs; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	128 MPa @Thickness 3.17 mm	18500 psi @Thickness 0.125 in	ASTM D638
Elongation at Break	3.0 % @Thickness 3.17 mm	3.0 % @Thickness 0.125 in	ASTM D638
Flexural Strength	155 MPa @Thickness 3.17 mm	22500 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	7.58 GPa @Thickness 3.17 mm	1100 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	143 °C	290 °F	ASTM D648
UL RTI, Electrical	80.0 °C	176 °F	
UL RTI, Mechanical with Impact	80.0 °C	176 °F	
UL RTI, Mechanical without Impact	80.0 °C	176 °F	
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	PLC 6
Comparative Tracking Index	100 - 175 V	100 - 175 V	PLC 4
Hot Wire Ignition, HWI	60 - 120 sec	60 - 120 sec	PLC 1
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	PLC 0

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