

PTS Tristar® PC-10R-CL02(V38) 38 MFI Polycarbonate with Release

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

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-10R-CL02V38-38-MFI-Polycarbonate-with-Release.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Water Absorption	0.12 %	0.12 %	24 hrs; ASTM D570
Melt Flow	38 g/10 min	38 g/10 min	
	@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	64.8 MPa	9400 psi	ASTM D638
	@Thickness 3.17 mm	@Thickness 0.125 in	
Elongation at Break	110 %	110 %	ASTM D638
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	33.0 µm/m-°C	18.3 µin/in-°F	
	@Temperature -40.0 - 95.0 °C	@Temperature -40.0 - 203 °F	
CTE, linear, Transverse to Flow	33.0 µm/m-°C	18.3 µin/in-°F	
	@Temperature -40.0 - 95.0 °C	@Temperature -40.0 - 203 °F	

Thermal Properties Deflection Temperature at 1.8 MPa (100 psi)	124 °C Metric	255 °F English	ASTM D648 Comments
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-2 @Thickness 1.50 mm	V-2 @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	PLC 6
Comparative Tracking Index	250 - 400 V	250 - 400 V	PLC 2
Hot Wire Ignition, HWI	15 - 30 sec @Thickness 1.50 mm	15 - 30 sec @Thickness 0.0591 in	PLC 3
	30 - 60 sec @Thickness 3.00 mm	30 - 60 sec @Thickness 0.118 in	PLC 2
High Amp Arc Ignition, HAI	60 - 120 arcs @Thickness 3.00 mm	60 - 120 arcs @Thickness 0.118 in	PLC 1
	>= 120 arcs @Thickness 1.50 mm	>= 120 arcs @Thickness 0.0591 in	PLC 0
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	PLC 3

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