

PTS Tristar® PC-10FRNH 12 MFI Non-Bromine Non-Chlorine Flame Retardant Polycarbonate With Release

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, 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-10FRNH-12-MFI-Non-Bromine-Non-Chlorine-Flame-Retardant-Polycarbonate-With-Release.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
Water Absorption	0.18 %	0.18 %	24 hours at 73°F; ASTM D570
Melt Flow	12 g/10 min @Load 1.20 kg, Temperature 300 °C	12 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	61.4 MPa @Thickness 3.17 mm	8900 psi @Thickness 0.125 in	ASTM D638
Elongation at Break	75 % @Thickness 3.17 mm	75 % @Thickness 0.125 in	ASTM D638
Flexural Yield Strength	96.5 MPa @Thickness 3.17 mm	14000 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	2.34 GPa @Thickness 3.17 mm	340 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	6.94 J/cm @Thickness 3.17 mm	13.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	126 °C	259 °F	ASTM D648
Flammability, UL94	V-0	V-0	colors; E-155285

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	254 - 274 °C	490 - 525 °F	
Middle Barrel Temperature	266 - 277 °C	510 - 530 °F	
Front Barrel Temperature	277 - 293 °C	530 - 560 °F	
Nozzle Temperature	271 - 293 °C	520 - 560 °F	
Melt Temperature	282 - 304 °C	540 - 580 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	
Drying Temperature	121 °C	250 °F	
Dry Time	4 hour	4 hour	
Injection Pressure	75.8 - 124 MPa	11000 - 18000 psi	
Back Pressure	0.345 - 1.38 MPa	50.0 - 200 psi	

Descriptive Properties	Value	Comments
Edge Gate	Slow to Medium	
Tab Gate	Medium to Fast	
Tunnel Gate	Fast	

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