

## PTS Tristar® PC-10FR-(VIK) 16 MFI Flame Retardant, UV Stabilized Polycarbonate With Impact Modifier and Release

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified

### 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-10FR-VIK-16-MFI-Flame-Retardant-UV-Stabilized-Polycarbonate-With-Impact-Modifier-and-Release.php](http://www.lookpolymers.com/polymer_PTS-Tristar-PC-10FR-VIK-16-MFI-Flame-Retardant-UV-Stabilized-Polycarbonate-With-Impact-Modifier-and-Release.php)

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.18 %	0.18 %	24 Hrs; ASTM D570
Melt Flow	16 g/10 min @Load 1.20 kg, Temperature 300 °C	16 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM 1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	55.2 MPa @Thickness 3.17 mm	8000 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	86.2 MPa @Thickness 3.17 mm	12500 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	2.07 GPa @Thickness 3.17 mm	300 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	6.41 J/cm @Thickness 3.17 mm	12.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.2 µm/m-°C @Temperature -40.0 - 95.0 °C	39.0 µin/in-°F @Temperature -40.0 - 203 °F	ASTM E831-06
CTE, linear, Transverse to Flow	68.4 µm/m-°C @Temperature -40.0 -	38.0 µin/in-°F @Temperature -40.0 -	ASTM E831-06

Thermal Properties	95.0 °C Metric	203 °F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	121 °C	250 °F	ASTM D648
	137 °C	279 °F	ISO 75
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-1	V-1	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Oxygen Index	36.9 %	36.9 %	ASTM D2863
Glow Wire Test	960 °C	1760 °F	GWFI; IEC 695-2-1/2

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+15 ohm-cm	3.00e+15 ohm-cm	96 hours at 90°C; 50% RH; ASTM D257
	6.00e+15 ohm-cm	6.00e+15 ohm-cm	40 hours; 23C; 50% RH; ASTM D257
Dielectric Strength	24.0 kV/mm	610 kV/in	ASTM D149
	@Thickness 3.17 mm	@Thickness 0.125 in	
Arc Resistance	60 - 120 sec	60 - 120 sec	PLC 6
High Voltage Arc Resistance to Ignition (HVAR)	16 sec	16 sec	UL 746A
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Comparative Tracking Index	250 - 400 V	250 - 400 V	PLC 2
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	PLC 3
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	30 - 60 sec	30 - 60 sec	PLC 2
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Amp Arc Ignition, HAI	60 - 120 arcs	60 - 120 arcs	PLC 1
	@Thickness 3.00 mm	@Thickness 0.118 in	
	>= 120 arcs	>= 120 arcs	PLC 0
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
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.

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