

TRISTAR® PC-10GFR-(V)

Polycarbonate

Polymer Technology and Services, LLC

Message:

TRISTAR® PC-10GFR-(V) is a Polycarbonate (PC) product filled with 10% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of TRISTAR® PC-10GFR-(V) include outdoor applications, electrical/electronic applications and wire & cable. Characteristics include:

- Flame Rated
- REACH Compliant
- RoHS Compliant
- Good Mold Release
- Good UV Resistance

General Information			
UL YellowCard	E155285-100165432	E155285-223917	E155285-223923
Filler / Reinforcement	Glass Fiber, 10% Filler by Weight		
Additive	Mold Release		
	UV Stabilizer		
Features	Good Mold Release		
	Good UV Resistance		
Uses	Electrical/Electronic Applications		
	Telecommunications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.17 mm)	0.20 to 0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.12	%	ASTM D570
Outdoor Suitability			UL 746C
White	f2		
--	f1		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 3.17 mm)	62.0	MPa	ASTM D638
Tensile Elongation (Break, 3.17 mm)	15	%	ASTM D1708
Flexural Modulus (3.17 mm)	3100	MPa	ASTM D790
Flexural Strength (Yield, 3.17 mm)	96.5	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.17 mm)	110	J/m	ASTM D256
Tensile Impact Strength (3.17 mm)	53.3	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	138	°C	ASTM D648
RTI Elec	80.0 to 125	°C	UL 746
RTI Imp	80.0 to 115	°C	UL 746
RTI Str	80.0 to 125	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
23°C ¹	6.0E+15	ohms·cm	
90°C ²	3.0E+15	ohms·cm	
Dielectric Strength (3.00E-6 mm)	19	kV/mm	ASTM D149
	PLC 6		
Arc Resistance	PLC 7		ASTM D495
	PLC 3		
Comparative Tracking Index (CTI)	PLC 4		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 3		UL 746
	PLC 1		
Hot-wire Ignition (HWI)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
2.40 mm	5VA		
Glow Wire Flammability Index	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	875	°C	IEC 60695-2-13
Oxygen Index	37	%	ASTM D2863
NOTE			
1.	40 hr, 50% RH		
2.	96 hr, 50% RH		

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