

TRISTAR® PC-10FR-(VIK)

Polycarbonate

Polymer Technology and Services, LLC

Message:

TRISTAR® PC-10FR-(VIK) is a Polycarbonate (PC) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of TRISTAR® PC-10FR-(VIK) include electrical/electronic applications and wire & cable. Characteristics include:

- Flame Rated
- REACH Compliant
- RoHS Compliant
- Flame Retardant
- Good Mold Release

General Information			
UL YellowCard	E155285-223919		
Additive	Flame Retardant		
	Impact Modifier		
	Mold Release		
	UV Stabilizer		
Features	Flame Retardant		
	Good Mold Release		
	Good UV Resistance		
	Impact Modified		
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	1.23	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	16	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.18	%	ASTM D570
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)	55.2	MPa	ASTM D638
Tensile Elongation (Break, 3.17 mm)	75	%	ASTM D1708
Flexural Modulus (3.17 mm)	2070	MPa	ASTM D790
Flexural Strength (Yield, 3.17 mm)	86.2	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.17 mm)	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	121	°C	ASTM D648
1.8 MPa, Unannealed	137	°C	ISO 75-2/A
CLTE			ASTM E831
Flow : -40 to 95°C	7.0E-5	cm/cm/°C	
Transverse : -40 to 95°C	6.8E-5	cm/cm/°C	
RTI Elec	125	°C	UL 746
RTI Imp	115	°C	UL 746
RTI Str	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 (3.17E-6 mm)	24	kV/mm	ASTM D149
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 2		UL 746
High Amp Arc Ignition (HAI)			UL 746
1.50 mm	PLC 0		
3.00 mm	PLC 1		
High Voltage Arc Resistance to Ignition (HVAR) (1.60 mm)	PLC 3		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 3		UL 746
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 3		
3.00 mm	PLC 2		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-1		
3.00 mm	V-0		
Glow Wire Flammability Index	960	°C	IEC 60695-2-12
Oxygen Index	37	%	ASTM D2863
NOTE			
1.	40 hr, 50% RH		
2.	96 hr, 50% RH		

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