

# TRISTAR® PC-20GFR

Polycarbonate

Polymer Technology and Services, LLC

## Message:

TRISTAR® PC-20GFR is a Polycarbonate (PC) product filled with 20% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of TRISTAR® PC-20GFR include electrical/electronic applications and wire & cable.

Characteristics include:

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

General Information			
UL YellowCard	E155285-223926	E155285-223917	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Mold Release		
Features	Good Mold Release		
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	1.34	g/cm³	ASTM D792
Water Absorption (23°C, 24 hr)	0.12	%	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)	110	MPa	ASTM D638
Tensile Elongation (Break, 3.17 mm)	5.0	%	ASTM D1708
Flexural Modulus (3.17 mm)	5380	MPa	ASTM D790
Flexural Strength (Yield, 3.17 mm)	131	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.17 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	141	°C	ASTM D648
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	80.0	°C	UL 746
Electrical	Nominal Value	Test Method	


Arc Resistance	PLC 6	ASTM D495
Comparative Tracking Index (CTI)	PLC 4	UL 746
High Amp Arc Ignition (HAI)	PLC 0	UL 746
Hot-wire Ignition (HWI)	PLC 1	UL 746
Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.50 mm	V-0	
3.00 mm	V-0	

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