

TRISTAR® PC-05GFR

Polycarbonate

Polymer Technology and Services, LLC

Message:

TRISTAR®PC-05GFR is a polycarbonate (PC) product that contains a 5.0% glass fiber reinforced material. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. TRISTAR®PC-05GFR application areas include electrical/electronic applications and wire and cable.

Features include:

flame retardant/rated flame

Comply with REACH standard

ROHS certification

mold release agent

excellent release agent

General Information			
UL YellowCard	E155285-223918	E155285-223917	
Filler / Reinforcement	Glass fiber reinforced material, 5.0% filler by weight		
Additive	demoulding		
Features	Good demoulding performance		
Uses	Electrical/Electronic Applications		
	Communication Equipment		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Water Absorption (23°C, 24 hr)	0.15	%	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)	58.6	MPa	ASTM D638
Tensile Elongation (Break, 3.17 mm)	15	%	ASTM D1708
Flexural Modulus (3.17 mm)	2480	MPa	ASTM D790
Flexural Strength (Yield, 3.17 mm)	93.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.17 mm)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	135	°C	ASTM D648
RTI Elec	125	°C	UL 746
RTI Imp	115	°C	UL 746

RTI	125	°C	UL 746
Electrical	Nominal Value		Test Method
Arc Resistance	PLC 7		ASTM D495
Comparative Tracking Index (CTI)	PLC 3		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 3		UL 746
Hot-wire Ignition (HWI)	PLC 2		UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
3.00 mm	V-0		UL 94
6.00 mm	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	48	hr	
Rear Temperature	221 - 249	°C	
Middle Temperature	266 - 293	°C	
Front Temperature	277 - 299	°C	
Nozzle Temperature	249 - 288	°C	
Processing (Melt) Temp	271 - 299	°C	
Mold Temperature	71.1 - 93.3	°C	
Back Pressure	0.345 - 1.38	MPa	
Injection instructions			

Injection Speed - Edge Gate: FastInjection Speed - Tab Gate: FastInjection Speed - Tunnel Gate: Fast

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