

Makropol® PC A3 G20 PRTA010 PC315

Polycarbonate

Petropol Industry and Trade of Polymers LTDA

Message:

Polycarbonate with 20% natural fiber glass in black color for injection molding with excellent thermal and mechanical properties.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PC GF20<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	4.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.10 to 0.30	%	ASTM D955
Water Absorption (24 hr)	0.16	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	109	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	5500	MPa	ASTM D790
Flexural Strength	130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	150	°C	
1.8 MPa, Unannealed	146	°C	
Vicat Softening Temperature	166	°C	ASTM D1525
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	280 to 320	°C	
Mold Temperature	90.0 to 110	°C	

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Recommended distributors for this material

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