

Edgetek™ PC-20GF/000

Polycarbonate

PolyOne Corporation

Message:

Edgetek™ PC-20GF/000 is a Polycarbonate (PC) product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E76261-101413465		
Filler / Reinforcement	Glass Fiber		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.40	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	6890	MPa	ASTM D638
Tensile Strength ² (Break)	107	MPa	ASTM D638
Tensile Elongation ³ (Break)	5.0	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength	131	MPa	ASTM D790
Compressive Strength	141	MPa	ASTM D695
Shear Strength	58.6	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm, Injection Molded)	130	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Annealed, 3.18 mm	149	°C	
1.8 MPa, Annealed, 3.18 mm	143	°C	
CLTE - Flow	2.9E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.34	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.0E+15	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-1		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	2.0	hr	

Processing (Melt) Temp	288 to 316	°C
Mold Temperature	82.2 to 121	°C
NOTE		
1.	Type I, 5.1 mm/min	
2.	Type I, 5.1 mm/min	
3.	Type I, 5.1 mm/min	

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