Edgetek™ PF-20GF/000

Polysulfone

PolyOne Corporation

Message:

The Edgetek® Engineering Thermoplastic Compounds portfolio covers a broad range of standard and custom-formulated high performance materials. This portfolio includes high-temperature materials for elevated service temperature environments, high-modulus / structural materials for load-bearing and high-strength applications and flame-retardant products. These compounds are based on select engineering thermoplastic resins that are compounded with reinforcing additives such as carbon fiber, glass fiber and glass beads.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.38	g/cm³	ASTM D792
	0.30 to 0.40		
Molding Shrinkage - Flow	0.30	%	ASTM D955
Water Absorption			ASTM D570
24 hr	0.20	%	
Saturation	0.60	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	92		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	5520	MPa	ASTM D638
Tensile Strength [2] (Break)	103	MPa	ASTM D638
Tensile Elongation [3] (Break)	3.0	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Compressive Strength	138	MPa	ASTM D695
Shear Strength	62.7	MPa	ASTM D732
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 6.35 mm, Injection Molded)	69	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Annealed, 3.18 mm	185	°C	
1.8 MPa, Annealed, 3.18 mm	179	°C	
CLTE - Flow	2.9E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**

Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	135	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	338 to 371	°C	
Mold Temperature	93.3 to 149	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		
3.	Type I, 5.1 mm/min		

Recommended distributors for this material

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