

Edgetek™ PI-30GF/000R BLACK

Polyether Imide

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			
UL YellowCard	E76261-101413103		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Amorphous		
	Good Chemical Resistance		
	Good Dimensional Stability		
	High Heat Resistance		
	High Rigidity		
Uses	Aerospace Applications		
	Aircraft Applications		
	Automotive Applications		
	High Temperature Applications		
	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	0.10 to 0.30	%	
Across Flow : 3.18 mm	0.80 to 0.90	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	9960	MPa	ASTM D638
Tensile Strength ² (Break)	157	MPa	ASTM D638
Tensile Elongation (Break)	2.0 to 3.0	%	ASTM D638
Flexural Modulus ³	8960	MPa	ASTM D790
Flexural Strength ⁴	221	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	201	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-0		UL 94
NOTE			
1.	5.1 mm/min		
2.	5.1 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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