Edgetek™ PK-10GF/000

Polyetheretherketone

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,10% Filler by Weight		
Features	General Purpose High Heat Resistance		
Uses	Automotive Applications Consumer Applications General Purpose Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.39	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.40 to 0.50	%	ASTM D955
Water Absorption (24 hr, 3.18 mm)	0.20	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	5520	MPa	ASTM D638
Tensile Strength [2] (Yield)	124	MPa	ASTM D638
Tensile Elongation [3] (Break)	4.0 to 5.0	%	ASTM D638
Flexural Modulus	5170	MPa	ASTM D790
Flexural Strength	193	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	75	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	210	°C	ASTM D648
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	377 to 388	°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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