Edgetek™ X ET9800-0030 RS Natural

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,30% Filler by Weight		
Features	High Heat Resistance Specialty Grade		
Uses	Automotive Applications Consumer Applications High Temperature Applications Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.54	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D955
Water Absorption (24 hr, 3.18 mm)	0.10	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	11700	MPa	ASTM D638
Tensile Strength [2] (Yield)	165	MPa	ASTM D638
Tensile Elongation [3] (Break)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	248	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	110	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	310	°C	ASTM D648
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	388 to 399	°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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