Edgetek™ AM-35GF/000 FR NH

Polyphthalamide

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,35% Filler by Weight		
Features	Flame Retardant Halogen Free		
Uses	Automotive Applications Electrical/Electronic Applications General Purpose Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.51	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 2.00 mm	0.70	%	
Flow : 2.00 mm	0.10	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	12500	MPa	ISO 527-2
Tensile Stress (Break)	150	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	10000	MPa	ISO 178
Flexural Stress	210	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Annealed)	280	°C	ISO 75-2/A
Melting Temperature	320 to 330	°C	ISO 11357-3
Electrical	**Nominal Value**	**Unit**	**Test Method**
Comparative Tracking Index	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-0		
1.60 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	960	°C	
1.60 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.800 mm	750	°C	
1.60 mm	750	°C	
3.00 mm	775	°C	
Oxygen Index	> 34	%	ISO 4589-2

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	4.0	hr
Suggested Max Moisture	< 0.10	%
Processing (Melt) Temp	320 to 340	°C
Mold Temperature	90.0 to 120	°C

Recommended distributors for this material

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