Edgetek™ AM-60GF/000 HS Natural

Polyphthalamide

Key Characteristics

Product Description	
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		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East	• Europe
Filler / Reinforcement	• Glass Fiber, 60% Filler by Weight	
Features	• Heat Stabilized	
Uses	• Automotive Applications • Electrical/Electronic Applications	• General Purpose • Industrial Applications
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2]	1.75 g/cm³	1.75 g/cm³	ISO 1183
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	2.76E+6 psi	19000 MPa	ISO 527-2
Tensile Stress	34800 psi	240 MPa	ISO 527-2
Tensile Strain (Break)	0.50 to 1.0 %	0.50 to 1.0 %	ISO 527-2
Flexural Modulus	2.32E+6 psi	16000 MPa	ISO 178
Flexural Stress	49300 psi	340 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	4.8 ft·lb/in²	10 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	38 ft·lb/in²	80 kJ/m²	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	536 °F	280 °C	
Melting Temperature (DSC)	572 to 617 °F	300 to 325 °C	ISO 3146
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Comparative Tracking Index	600 V	600 V	IEC 60112
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.13 in (3.2 mm))	HB	HB	UL 94
FMVSS Flammability	< 3.9 in/min	< 100 mm/min	DIN 75200

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	248 °F	120 °C
Drying Time	4.0 hr	4.0 hr
Suggested Max Moisture	< 0.10 %	< 0.10 %
Processing (Melt) Temp	599 to 635 °F	315 to 335 °C
Mold Temperature	212 to 284 °F	100 to 140 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] +/-0.02

Beyond Polymers.

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