

PolyOne Edgetek® AM-35GF/000 FR NH Polyphthalamide (PPA)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

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. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-AM-35GF000-FR-NH-Polyphthalamide-PPA.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ISO 1183
Maximum Moisture Content	<= 0.10	<= 0.10	
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	Flow; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	0.0070 cm/cm	0.0070 in/in	Across Flow; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	ISO 527-2
Elongation at Break	2.0 %	2.0 %	ISO 527-2
Tensile Modulus	12.5 GPa	1810 ksi	ISO 527-2
Flexural Strength	210 MPa	30500 psi	ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	ISO 178
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	320 - 330 °C	608 - 626 °F	ISO 11357-3
Deflection Temperature at 1.8 MPa (264 psi)	280 °C	536 °F	Annealed; ISO 75-2/A

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 3.00 mm	@Thickness 0.118 in	UL 94
	V-0	V-0	UL 94
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	UL 94
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Oxygen Index	>= 34 %	>= 34 %	ISO 4589-2
Glow Wire Test	750 °C	1380 °F	Ignition Temperature; IEC 60695-2-13
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	750 °C	1380 °F	Ignition Temperature; IEC 60695-2-13
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	775 °C	1430 °F	Ignition Temperature; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	960 °C	1760 °F	Flammability Index; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	
	960 °C	1760 °F	Flammability Index; IEC 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	960 °C	1760 °F	Flammability Index; IEC 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	320 - 340 °C	608 - 644 °F	
Mold Temperature	90.0 - 120 °C	194 - 248 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Features	Flame Retardant	

Descriptive Properties	Halogen Free Value	Comments
Filler / Reinforcement	Glass Fiber Reinforcement, 35% Filler by Weight	
Forms	Pellets	
Generic Material	PPA	
Generic Name	Polyphthalamide (PPA)	
Processing Method	Injection Molding	
Regional Availability	Europe	
Uses	Automotive Applications	
	Electrical/Electronic Applications	
	General Purpose	
	Industrial Applications	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China