

PolyOne Edgetek® AM-45GF/000 PPA (Polyphthalamide), 45% Glass Fiber Reinforced, Hi-Temp (discontinued **)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 50% Glass Fiber Reinforced

Material Notes:

Information provided by PolyOne™ Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-AM-45GF000-PPA-Polyphthalamide-45-Glass-Fiber-Reinforced-Hi-Temp-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	ASTM D792
Water Absorption	0.25 % @Thickness 3.17 mm	0.25 % @Thickness 0.125 in	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	257 MPa	37300 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	1.0 - 3.0 %	1.0 - 3.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	17.2 GPa	2500 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	310 MPa	45000 psi	ASTM D790
Flexural Modulus	13.8 GPa	2000 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm	2.50 ft-lb/in	Method A, Injection Molded, 0.125 in bars, 73°F; ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	302 °C	575 °F	Unannealed, 0.125 in bars; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	321 - 349 °C	610 - 660 °F	Molding

Descriptive Properties	Value	Comments
Processing Method	Injection Molding	

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