

Wellman Wellamid® GF43-66/6 XE-N 43% Glass Fiber Reinforced Nylon 66/6, Lubricated & Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, 40% Glass Fiber Reinforced

Material Notes:

Typical Applications: Machinery gear trains and linkage, conveyor belt links, fasteners, auto under hood and door parts, automotive door handles, appliance parts, sporting goods, lawn and garden equipment. Data provided by the manufacturer, Wellman Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wellman-Wellamid-GF43-666-XE-N-43-Glass-Fiber-Reinforced-Nylon-666-Lubricated-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Water Absorption	1.2 %	1.2 %	Approximate 24 hr.
Linear Mold Shrinkage	0.0010 - 0.0050 cm/cm	0.0010 - 0.0050 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	205 MPa	29700 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Flexural Yield Strength	325 MPa	47100 psi	ISO 178
Flexural Modulus	11.6 GPa	1680 ksi	ISO 178
Izod Impact, Notched	1.80 J/cm	3.37 ft-lb/in	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	ISO 75
Flammability, UL94	HB @Thickness 0.790 mm	HB @Thickness 0.0311 in	From Wellman QC Laboratory Testing; UL 94

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	282 - 310 °C	540 - 590 °F	
Middle Barrel Temperature	277 - 304 °C	530 - 580 °F	
Front Barrel Temperature	271 - 299 °C	520 - 570 °F	
Nozzle Temperature	271 - 304 °C	520 - 580 °F	
Melt Temperature	271 - 304 °C	520 - 580 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	
Drying Temperature	79.4 °C	175 °F	Opened bags and gaylord boxes
Dry Time	2 - 4 hour	2 - 4 hour	Opened bags and gaylord boxes
Moisture Content	0.050 - 0.20 %	0.050 - 0.20 %	During molding to prevent hydrolytic degradation
	<= 0.20 %	<= 0.20 %	In shipping bags, ready to mold
Injection Pressure	34.5 - 138 MPa	5000 - 20000 psi	
Back Pressure	0.345 MPa	50.0 psi	
Screw Speed	30 - 120 rpm	30 - 120 rpm	

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