

Wellman Wellamid® GF20-60 XE-N 20% Glass Fiber Reinforced Nylon 6, Lubricated & Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled

Material Notes:

Typical Applications: Radio and TV components, dishwasher roller carriages, chain saw oil reservoirs, gears, housings, door & window latches, power hand tool housings, high temperature devices. Data provided by the manufacturer, Wellman Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wellman-Wellamid-GF20-60-XE-N-20-Glass-Fiber-Reinforced-Nylon-6-Lubricated-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Water Absorption	1.3 %	1.3 %	Approximate 24 hr.
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	135 MPa	19600 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Flexural Yield Strength	195 MPa	28300 psi	ISO 178
Flexural Modulus	5.80 GPa	841 ksi	ISO 178
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °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	260 - 282 °C	500 - 540 °F	
Middle Barrel Temperature	254 - 277 °C	490 - 530 °F	
Front Barrel Temperature	249 - 271 °C	480 - 520 °F	
Nozzle Temperature	249 - 271 °C	480 - 520 °F	
Melt Temperature	254 - 282 °C	490 - 540 °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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