

Wellman Wellamid® GF33-66 XE-N, 33% Glass Fiber Reinforced Nylon 66, Lubricated & Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 30% 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-GF33-66-XE-N-33-Glass-Fiber-Reinforced-Nylon-66-Lubricated-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Water Absorption	1.25 %	1.25 %	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	190 MPa	27600 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Flexural Yield Strength	280 MPa	40600 psi	ISO 178
Flexural Modulus	9.50 GPa	1380 ksi	ISO 178
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ISO 75
Flammability, UL94	HB @Thickness 0.790 mm	HB @Thickness 0.0311 in	

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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