

Wellman Wellamid® 22L-N Unfilled Nylon 66, Lubricated

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

Typical Applications: Automotive components, gears, switches, bearings, pulleys, fasteners, electrical coil forms, chain-saw hand guards, cable ties, furniture hardware, small appliance housings, aerosol spray heads. Data provided by the manufacturer, Wellman Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wellman-Wellamid-22L-N-Unfilled-Nylon-66-Lubricated.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Water Absorption	1.4 %	1.4 %	Approximate 24 hr.
Linear Mold Shrinkage	0.017 - 0.021 cm/cm	0.017 - 0.021 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	80.0 MPa	11600 psi	ISO 527
Elongation at Break	50 %	50 %	ISO 527
Flexural Yield Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	ISO 75
Flammability, UL94	V-2 @Thickness 0.790 mm	V-2 @Thickness 0.0311 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	277 - 293 °C	530 - 560 °F	
Middle Barrel Temperature	271 - 288 °C	520 - 550 °F	
Front Barrel Temperature	266 - 282 °C	510 - 540 °F	
Nozzle Temperature	266 - 293 °C	510 - 560 °F	
Melt Temperature	271 - 304 °C	520 - 580 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	

Processing Properties	Metric	English	Comments
Drying Temperature	130°C	266°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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