

Wellman Wellamid® XT1482-N Impact Modified Nylon 66, Lubricated & Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Typical Applications: Automotive fasteners, living hinge, head lamp adjustment devices, ink pen components, wire separators, hardware components, window installation clips, safety equipment. Data provided by the manufacturer, Wellman Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wellman-Wellamid-XT1482-N-Impact-Modified-Nylon-66-Lubricated-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183
Water Absorption	1.2 %	1.2 %	Approximate 24 hr.
Linear Mold Shrinkage	0.019 - 0.023 cm/cm	0.019 - 0.023 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	45.0 MPa	6530 psi	ISO 527
Elongation at Break	95 %	95 %	ISO 527
Flexural Yield Strength	60.0 MPa	8700 psi	ISO 178
Flexural Modulus	1.80 GPa	261 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)	56.0 °C	133 °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	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	

Processing Properties	Metric	English	Comments
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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