

Wellman Wellamid® 42LH XE-N Unfilled Nylon 6, Lubricated & Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Heat Stabilized

Material Notes:

Typical Applications: Automotive seat belt, buckle and anchor components; convoluted tubing for wire harnesses; furniture hardware, curtain glides. Data provided by the manufacturer, Wellman Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wellman-Wellamid-42LH-XE-N-Unfilled-Nylon-6-Lubricated-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	1.6 %	1.6 %	Approximate 24 hr.
Linear Mold Shrinkage	0.010 - 0.014 cm/cm	0.010 - 0.014 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	75.0 MPa	10900 psi	ISO 527
Elongation at Break	60 %	60 %	ISO 527
Flexural Yield Strength	100 MPa	14500 psi	ISO 178
Flexural Modulus	2.70 GPa	392 ksi	ISO 178
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	57.0 °C	135 °F	ISO 75
Flammability, UL94	V-2 @Thickness 0.790 mm	V-2 @Thickness 0.0311 in	From Wellman QC Laboratory Testing; UL94

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	238 - 282 °C	460 - 540 °F	
Middle Barrel Temperature	232 - 277 °C	450 - 530 °F	
Front Barrel Temperature	227 - 271 °C	440 - 520 °F	
Nozzle Temperature	227 - 293 °C	440 - 560 °F	
Melt Temperature	227 - 293 °C	440 - 560 °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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