

Wellman Wellamid® FR22F-N Flame Retardant Nylon 66, Lubricated

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

Material Notes:

Typical Applications: Electrical terminal blocks, electric fan switch housings, coil forms, multi-pin electrical connectors, electric fan switch housings, TV tuner components, automotive switch housings. Data provided by the manufacturer, Wellman Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wellman-Wellamid-FR22F-N-Flame-Retardant-Nylon-66-Lubricated.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Water Absorption	1.4 %	1.4 %	Approximate 24 hr.
Linear Mold Shrinkage	0.014 - 0.018 cm/cm	0.014 - 0.018 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	65.0 MPa	9430 psi	ISO 527
Elongation at Break	7.0 %	7.0 %	ISO 527
Flexural Yield Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	3.90 GPa	566 ksi	ISO 178
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ISO 75
Flammability, UL94	V-0 @Thickness 0.790 mm	V-0 @Thickness 0.0311 in	UL 94

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	271 - 282 °C	520 - 540 °F	
Middle Barrel Temperature	266 - 277 °C	510 - 530 °F	
Front Barrel Temperature	260 - 271 °C	500 - 520 °F	
Nozzle Temperature	271 - 282 °C	520 - 540 °F	
Melt Temperature	266 - 277 °C	510 - 530 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	

Processing Properties	Metric	English	Comments
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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