

Wellman Wellamid® T423-BK10 Mineral Reinforced Nylon 6, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Typical Applications: Lawn and garden equipment, automotive trim, bezels, wheel covers, window frames, gas tank filler housings, brackets, metalized lighting reflectors for automotive, automotive cooling fans & shrouds, automotive door handles, brackets, automotive mirror shells, painted parts, components for small gas engines, sporting goods, auto luggage rack components. Data provided by the manufacturer, Wellman Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wellman-Wellamid-T423-BK10-Mineral-Reinforced-Nylon-6-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Water Absorption	1.0 %	1.0 %	Approximate 24 hr.
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	75.0 MPa	10900 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Flexural Yield Strength	125 MPa	18100 psi	ISO 178
Flexural Modulus	6.30 GPa	914 ksi	ISO 178
Izod Impact, Notched	0.300 J/cm	0.562 ft-lb/in	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	ISO 75
Flammability, UL94	HB @Thickness 1.57 mm	HB @Thickness 0.0618 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	254 - 293 °C	490 - 560 °F	

Melt Temperature Processing Properties	271 - 293 °C Metric	520 - 560 °F 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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