

Wellman Wellamid® GS25-66 22L-N, 25% Glass Sphere Filled Nylon 66, Lubricated

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Bead Filled

Material Notes:

Typical Applications: Potentiometer liners, electrical coil forms, automotive window lift and power door lock switch bodies, gears, thick wall section moldings, emission control valves. Data provided by the manufacturer, Wellman Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wellman-Wellamid-GS25-66-22L-N-25-Glass-Sphere-Filled-Nylon-66-Lubricated.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Water Absorption	1.3 %	1.3 %	Approximate 24 hr.
Linear Mold Shrinkage	0.012 - 0.016 cm/cm	0.012 - 0.016 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	65.0 MPa	9430 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Flexural Yield Strength	120 MPa	17400 psi	ISO 178
Flexural Modulus	4.00 GPa	580 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)	80.0 °C	176 °F	ISO 75
Flammability, UL94	HB @Thickness 1.57 mm	HB @Thickness 0.0618 in	UL 94

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	282 - 304 °C	540 - 580 °F	
Middle Barrel Temperature	271 - 288 °C	520 - 550 °F	
Front Barrel Temperature	260 - 277 °C	500 - 530 °F	
Nozzle Temperature	260 - 288 °C	500 - 550 °F	
Melt Temperature	277 - 304 °C	530 - 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	60 - 120 rpm	60 - 120 rpm	

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