

## Wellman Wellamid® GS40-60 42L-N 40% Glass Sphere Filled Nylon 6, Lubricated

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 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-GS40-60-42L-N-40-Glass-Sphere-Filled-Nylon-6-Lubricated.php](http://www.lookpolymers.com/polymer_Wellman-Wellamid-GS40-60-42L-N-40-Glass-Sphere-Filled-Nylon-6-Lubricated.php)

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.2 %	1.2 %	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	70.0 MPa	10200 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Flexural Yield Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	4.50 GPa	653 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)	70.0 °C	158 °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	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	254 - 277 °C	490 - 530 °F	
Melt Temperature	249 - 277 °C	480 - 530 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

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