

Wellman Wellamid® GSF25/15-66 22L-N 40% Glass Sphere/Fiber Reinforced Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Description: Glass Sphere/Fiber Reinforced Nylon 66 Information provided by Wellman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wellman-Wellamid-GSF2515-66-22L-N-40-Glass-SphereFiber-Reinforced-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183-87
Filler Content	40 %	40 %	
Linear Mold Shrinkage, Flow	0.0050 - 0.0090 cm/cm	0.0050 - 0.0090 in/in	ISO DIS 294-4
Linear Mold Shrinkage, Transverse	0.012 - 0.016 cm/cm	0.012 - 0.016 in/in	ISO DIS 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	115 MPa	16700 psi	ISO 527-93
Elongation at Break	2.5 %	2.5 %	ISO 527-93
Flexural Strength	180 MPa	26100 psi	ISO 178-93
Flexural Modulus	7.50 GPa	1090 ksi	ISO 178-93
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	ISO 180-93

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	240 °C	464 °F	ISO 75-93

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	
Mold Temperature			

Processing Properties	71.1 - 93.3 °C Metric	160 - 200 °F 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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