

Wellman Wellamid® XT1482-BK High Impact Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , Impact Grade

Material Notes:

Description: High Impact Nylon 66 Information provided by Wellman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wellman-Wellamid-XT1482-BK-High-Impact-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183-87
Linear Mold Shrinkage, Flow	0.019 - 0.023 cm/cm	0.019 - 0.023 in/in	ISO DIS 294-4
Linear Mold Shrinkage, Transverse	0.019 - 0.023 cm/cm	0.019 - 0.023 in/in	ISO DIS 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	ISO 527-93
Elongation at Break	90 %	90 %	ISO 527-93
Flexural Strength	60.0 MPa	8700 psi	ISO 178-93
Flexural Modulus	1.60 GPa	232 ksi	ISO 178-93
Izod Impact, Notched (ISO)	65.0 kJ/m ²	30.9 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)	50.0 °C	122 °F	ISO 75-93

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	266 - 293 °C	510 - 560 °F	
Melt Temperature	271 - 304 °C	520 - 580 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	
Drying Temperature	79.4 °C	175 °F	Opened bags and gaylord boxes

Dry Time Processing Properties	2 - 4 hour Metric	2 - 4 hour English	Opened bags and gaylord boxes Comments
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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