

## Wellman Wellamid® NY1599-N Unfilled Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

**Material Notes:**

Description: Unfilled Nylon 66 Information provided by Wellman.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Wellman-Wellamid-NY1599-N-Unfilled-Nylon-66.php](http://www.lookpolymers.com/polymer_Wellman-Wellamid-NY1599-N-Unfilled-Nylon-66.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	ISO 1183-87
Linear Mold Shrinkage, Flow	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ISO DIS 294-4
Linear Mold Shrinkage, Transverse	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ISO DIS 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527-93
Elongation at Break	10 %	10 %	ISO 527-93
Flexural Strength	115 MPa	16700 psi	ISO 178-93
Flexural Modulus	2.90 GPa	421 ksi	ISO 178-93
Izod Impact, Notched (ISO)	3.50 kJ/m <sup>2</sup>	1.67 ft-lb/in <sup>2</sup>	ISO 180-93

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ISO 75-93

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 282 °C	500 - 540 °F	
Middle Barrel Temperature	260 - 277 °C	500 - 530 °F	
Front Barrel Temperature	260 - 271 °C	500 - 520 °F	
Nozzle Temperature	260 - 293 °C	500 - 560 °F	
Melt Temperature	271 - 293 °C	520 - 560 °F	
Mold Temperature	37.8 - 93.3 °C	100 - 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	

## Contact Songhan Plastic Technology Co.,Ltd.

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