

Wellman EcoLon® 2000-BK1 37% Post Consumer Compound Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Description: Post Consumer Compound Nylon 66 Information provided by Wellman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wellman-EcoLon-2000-BK1-37-Post-Consumer-Compound-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ISO 1183-87
Filler Content	37 %	37 %	
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ISO DIS 294-4
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO DIS 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	ISO 527-93
Elongation at Break	4.0 %	4.0 %	ISO 527-93
Flexural Strength	165 MPa	23900 psi	ISO 178-93
Flexural Modulus	7.37 GPa	1070 ksi	ISO 178-93
Izod Impact, Notched (ISO)	4.20 kJ/m ²	2.00 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)	205 °C	401 °F	ISO 75-93

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	282 - 304 °C	540 - 580 °F	
Middle Barrel Temperature	282 - 293 °C	540 - 560 °F	
Front Barrel Temperature	271 - 282 °C	520 - 540 °F	
Nozzle Temperature	266 - 293 °C	510 - 560 °F	
Melt Temperature	282 - 304 °C	540 - 580 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	

Drying Temperature Processing Properties	79.4 °C Metric	175 °F English	Opened bags and gaylord boxes Comments
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	

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