

Nilit Polynil® N66-P50N Lubed Nylon 6/6

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

Material Notes:

Information provided by US distributor Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nilit-Polynil-N66-P50N-Lubed-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Water Absorption	1.3 %	1.3 %	24 hours at 73°F

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	123	123	ASTM D785
Tensile Strength, Yield	89.6 MPa @Thickness 3.17 mm	13000 psi @Thickness 0.125 in	
Elongation at Break	28 % @Thickness 3.17 mm	28 % @Thickness 0.125 in	
Flexural Yield Strength	135.1 MPa @Thickness 3.17 mm	19590 psi @Thickness 0.125 in	
Flexural Modulus	3.17 GPa @Thickness 3.17 mm	460 ksi @Thickness 0.125 in	
Izod Impact, Notched	0.370 J/cm @Thickness 3.17 mm	0.693 ft-lb/in @Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Melting Point	257 °C	495 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	231 °C	448 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ASTM D648
Flammability, UL94	V-2 @Thickness 1.59 mm	V-2 @Thickness 0.0625 in	

Processing Properties	Metric	English	Comments
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Rear Barrel Temperature Processing Properties	254 °C Metric	490 °F English	Comments
Middle Barrel Temperature	268 °C	515 °F	
Front Barrel Temperature	285 °C	545 °F	
Nozzle Temperature	266 - 282 °C	510 - 540 °F	
Melt Temperature	271 - 293 °C	520 - 560 °F	
Mold Temperature	26.7 - 93.3 °C	80.0 - 200 °F	
Drying Temperature	71.1 °C	160 °F	
Dry Time	4 hour	4 hour	
Injection Pressure	68.9 MPa	10000 psi	
Back Pressure	0.0689 - 0.689 MPa	10.0 - 100 psi	
Screw Speed	30 - 60 rpm	30 - 60 rpm	

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