

BASF Ultramid® 1000-11 NF2001 PA66 (Dry)

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

Material Notes:

Ultramid 1000-11 NF2001 is a general purpose nylon 6/6.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-1000-11-NF2001-PA66-Dry.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Water Absorption	8.5 %	8.5 %	ISO 62
Moisture Absorption at Equilibrium	2.5 %	2.5 %	23°C/50% R.H.; ISO 62
Linear Mold Shrinkage	0.016 cm/cm	0.016 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	83.0 MPa	12000 psi	50mm/min; ISO 527
	83.0 MPa	12000 psi	2 in/min; ASTM Test
Elongation at Break	25 %	25 %	50mm/min, Nominal strain; ISO 527
	60 %	60 %	2 in/min; ASTM Test
Elongation at Yield	5.0 %	5.0 %	50mm/min; ISO 527
Tensile Modulus	3.00 GPa	435 ksi	1mm/min; ISO 527
Flexural Strength	117 MPa	17000 psi	ASTM Test
Flexural Modulus	2.80 GPa	406 ksi	ISO Data
	2.90 GPa	421 ksi	ASTM Test
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	5.20 kJ/m ²	2.47 ft-lb/in ²	ISO Test
Charpy Impact Unnotched	NB	NB	ISO 179
	NB	NB	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.570 J/cm ²	2.71 ft-lb/in ²	ISO 179
	0.400 J/cm ²	1.90 ft-lb/in ²	

Mechanical Properties	Metric	English	ISO 179 Comments
	@ Temperature -30.0 °C	@ Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	257 °C	495 °F	10 K/min
	257 °C	495 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	205 °C	401 °F	ISO 75
	243 °C	469 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	72.0 °C	162 °F	ISO 75
	77.0 °C	171 °F	ASTM Test

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

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