



Ultramid® 1000-2 NF2001

BASF Corporation - Polyamide 66

Monday, November 4, 2019

General Information

Product Description

Ultramid 1000-2 NF2001 is a general purpose PA6/6.

General

Material Status	• Commercial: Active
Availability	• North America
Features	• General Purpose
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 73°F	8.5	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	2.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	435000	174000	psi	ISO 527-2
Tensile Stress (Yield, 73°F)	12000	7830	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	5.0	25	%	ISO 527-2
Nominal Tensile Strain at Break				ISO 527-2
73°F	25	> 50	%	
Flexural Modulus (73°F)	406000	160000	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-22°F	1.9	1.9	ft·lb/in ²	
73°F	2.7	7.6	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179
-22°F	No Break	No Break		
73°F	No Break	No Break		
Notched Izod Impact Strength				ISO 180
73°F	2.5	6.7	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi, Unannealed	401	--	°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	162	--	°F	
Melting Temperature (DSC)	500	--	°F	ISO 3146

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Processing Information

Injection	Dry	Unit
Drying Temperature	140 to 151	°F
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	536 to 581	°F
Mold Temperature	140 to 212	°F
Injection Pressure	5080 to 18100	psi
Injection Rate	Fast	
Back Pressure	0.00 to 50.8	psi
Screw Speed	40 to 80	rpm
Screw Compression Ratio	3.0:1.0 to 4.0:1.0	

Notes

¹ Typical properties: these are not to be construed as specifications.