Ultramid® N-276 BK ND3007

BASF Corporation - Polyamide 66

Monday, November 4, 2019

General Information

Product Description

Ultramid N-276 BK ND3007 is a 40% mineral/glass reinforced, heat stabilized injection molding PA6/6.

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass\Mineral, 40% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Stabilized
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	1.57E+6	psi	ISO 527-2
Tensile Stress (Break, 73°F)	19600	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.0	%	ISO 527-2
Flexural Modulus (73°F)	1.42E+6	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-22°F	1.7	ft·lb/in²	
73°F	1.8	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179
-22°F	19	ft·lb/in²	
73°F	21	ft·lb/in²	
Notched Izod Impact Strength (73°F)	2.0	ft·lb/in²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (66 psi, Unannealed)	491	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	468	°F	ISO 75-2/A
Melting Temperature (DSC)	500	°F	ISO 3146

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	140	°F
Drying Time	1.0 to 2.0	hr
Suggested Max Moisture	0.040 to 0.20	%
Processing (Melt) Temp	550 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

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Injection	Nominal Value	Unit
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.