

Ultramid® NFX-0102 NF2004

Polyamide 66

BASF Corporation

Product Description

Ultramid NFX-0102 NF2004 is a heat stabilized, 30% glass bead PA66 injection molding grade. It is especially formulated for low warp, increased stiffness and excellent dimensional stability.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight
Additive	• Heat Stabilizer
Features	• Good Dimensional Stability • Heat Stabilized
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1360	kg/m ³	ISO 1183 ²

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	4500	MPa	ISO 527-2 ²
Tensile Stress (Break)	70.0	MPa	ISO 527-2 ²
Tensile Strain (Break)	2.5	%	ISO 527-2 ²
Flexural Modulus (23°C)	4200	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	2.50	kJ/m ²	ISO 179/1eA ²
Notched Izod Impact Strength (23°C)	3.00	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	85.0	°C	ISO 75-2 ²
Melting Temperature (DSC)	260	°C	ISO 3146

Injection	Nominal Value	Unit
Drying Temperature	60.0	°C
Drying Time	1.0 to 2.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	288 to 305	°C
Mold Temperature	60.0 to 100	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	
Back Pressure	0.00 to 0.350	MPa
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.

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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如需要更多物性资料请查阅 www.kedisujiao.com

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