

Ultramid® N-333 NF3001

Polyamide 66

BASF Corporation

Product Description

Ultramid N-333 NF3001 is a 33% glass reinforced, heat stabilized, injection molding PA66 uncolored.

General

| | |
|------------------------|---|
| Material Status | • Commercial: Active |
| Availability | • North America |
| Filler / Reinforcement | • Glass Fiber Reinforcement, 33% Filler by Weight |
| Additive | • Heat Stabilizer |
| Features | • Heat Stabilized |
| RoHS Compliance | • RoHS Compliant |
| Appearance | • Natural Color • Translucent |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|------------------|---------------|-------------------|-----------------------|
| Density | 1390 | kg/m ³ | ISO 1183 ² |
| Water Absorption | | | ISO 62 ² |
| Saturation | 5.7 | % | |
| Equilibrium | 1.7 | % | |

| Mechanical | Nominal Value | Unit | Test Method |
|-------------------------|---------------|------|------------------------|
| Tensile modulus | 11000 | MPa | ISO 527-2 ² |
| Tensile Stress (Break) | 195 | MPa | ISO 527-2 ² |
| Tensile Strain (Break) | 3.0 | % | ISO 527-2 ² |
| Flexural Modulus (23°C) | 9600 | MPa | ISO 178 |

| Impact | Nominal Value | Unit | Test Method |
|---------------------------------------|---------------|-------------------|--------------------------|
| Charpy notched impact strength (23°C) | 12.0 | kJ/m ² | ISO 179/1eA ² |
| Notched Izod Impact Strength (23°C) | 12.0 | kJ/m ² | ISO 180 |

| Thermal | Nominal Value | Unit | Test Method |
|---|---------------|------|-----------------------|
| Deflection Temperature Under Load (1.8 MPa) | 255 | °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.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

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