Product Information

Ultramid® N-265 NF3001 Polyamide 66



Product Description

Ultramid N-265 NF3001 is a general purpose, 40% mineral reinforced PA6/6 that provides excellent flatness and dimensional stability in injection molding.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.50	
Moisture, %	62		
(50% RH)		1.5	
(Saturation)		5.1	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		9,900	-
Tensile stress at break, MPa	527		
23C		100	-
Tensile strain at break, %	527		
23C		3	-
Flexural Modulus, MPa	178		
23C		9,300	-
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m ²	180		
23C		3.1	-
Charpy Notched, kJ/m ²	179		
23C		3	-
Charpy Unnotched, kJ/m ²	179		
23C		30	-
-30C		25	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	260	-
HDT A, C	75	215	-
HDT B, C	75	240	-
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Processing Guidelines

Material Handling

Nylon 66 materials must be properly dried in order to provide parts with optimum strength and toughness. Nylon 66 materials are hygroscopic and will become degraded by excessive moisture during the injection molding process. For unopened bag/box, dry at 60 degC (140 degF) for 1-2 hours. For material exposed to the atmosphere, if additional drying is needed, dry at 66 degC (150 degF) or until the moisture level is between 0.04 - 0.20%.

Typical Profile

Melt Temperature: 288-305 degC (550-581 degF) Mold Temperature: 60-100 degC (140-212 degF) Injection Pressure: 35-125 MPa (5000-18000 psi)





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Back Pressure: 0-0.35 MPa (0-50 psi)

Screw RPM 40-80

Screw Compression Ratio:3:1-4:1

Mold Temperatures

This product can be processed over a wide range of mold temperatures; however, for applications where aesthetics are critical, a mold surface temperature of 60-100 degC (140-212 degF) is recommended.

Pressures

Injection pressure controls the filling of the part and should be applied for 90% of ram travel. Packing pressure affects the final part and can be used effectively in controlling sink marks and shrinkage. It should be applied and maintained until the gate area is completely frozen off.

Fill Rate

Fast fill rates are recommended to ensure uniform melt delivery to the cavity and prevent premature freezing.



