

Ultramid® 1503-2F BK ND3007

Polyamide 66



Product Description

Ultramid 1503-2F BK ND3007 is a 33% glass reinforced, heat stabilized injection molding PA6/6 grade. It is designed to provide enhanced hydrolysis resistance for under-the-hood applications.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.40	
Moisture, %	62		
(50% RH)		1.7	
(Saturation)		5.7	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		10,800	-
Tensile stress at break, MPa	527		
23C		190	144
Tensile strain at break, %	527		
23C		3	-
Flexural Strength, MPa	178		
Flexural Modulus, MPa	178		
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m ²	180		
Charpy Notched, kJ/m ²	179		
23C		11	-
-30C		8	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	260	-
HDT A, C	75	255	-
HDT B, C	75	264	-



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.

Note

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