

Ultramid® 1503-2F BK ND3007

Polyamide 66

BASF Corporation

Message:

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

General Information				
Filler / Reinforcement	Glass Fiber,33% Filler by Weight			
Additive	Heat Stabilizer			
Features	Heat Stabilized			
	Hydrolysis Resistant			
Uses	Automotive Under the Hood			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	5.7	--	%	
Equilibrium, 23°C, 50% RH	1.7	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	10800	--	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	190	144	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	--	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	8.0	--	kJ/m ²	
23°C	11	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	264	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	255	--	°C	ISO 75-2/A
Melting Temperature (DSC)	260	--	°C	ISO 3146
Injection	Dry	Unit		

Drying Temperature	60.0	°C
Drying Time	1.0 to 2.0	hr
Suggested Max Moisture	0.040 to 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	

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