

Ultramid® N-276 BK ND3007

Polyamide 66

BASF Corporation

Message:

Ultramid N-276 BK ND3007 is a 40% mineral/glass reinforced, heat stabilized injection molding PA6/6.

General Information			
UL YellowCard	E36632-317040		
Filler / Reinforcement	Glass\Mineral,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	10800	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	135	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	9800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	3.5	kJ/m ²	
23°C	3.8	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	40	kJ/m ²	
23°C	45	kJ/m ²	
Notched Izod Impact Strength (23°C)	4.2	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	255	°C	ISO 75-2/B
1.8 MPa, Unannealed	242	°C	ISO 75-2/A
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	0.040 to 0.20	%	
Processing (Melt) Temp	288 to 305	°C	
Mold Temperature	60.0 to 100	°C	

Injection Pressure	35.0 to 125	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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