

LNP™ THERMOCOMP™ UF00BAS compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP UF00BAS is a compound based on Polyphthalamide containing 55% Glass Fiber. Added feature of this material is: Heat Stabilized.

Also known as: LNP* THERMOCOMP* Compound UF-100-11 A HS

Product reorder name: UF00BAS

General Information			
Filler / Reinforcement	Glass Fiber,55% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.64	g/cm ³	
--	1.60	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.13	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.21	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	19200	MPa	ASTM D638
--	18900	MPa	ISO 527-2/1
Tensile Strength			
Break ²	246	MPa	ASTM D638
Break	227	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.8	%	ASTM D638
Break	1.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	17300	MPa	ASTM D790
-- ⁵	15900	MPa	ISO 178
Flexural Stress			
--	314	MPa	ISO 178
Break, 50.0 mm Span ⁶	338	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	82	J/m	ASTM D256
23°C ⁷	9.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	290	J/m	ASTM D4812
23°C ⁸	34	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.48	J	ASTM D3763
--	1.98	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	289	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	293	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	270	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	272	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	2.8E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	310 to 321	°C	
Middle Temperature	316 to 327	°C	
Front Temperature	327 to 338	°C	
Processing (Melt) Temp	316 to 332	°C	
Mold Temperature	138 to 166	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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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



WECHAT