

LNP™ THERMOCOMP™ UF00ASW compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP UF00ASW is a compound based on Polyphthalamide (PPA) containing glass fiber. Characteristics of this grade of Heat Stabilized and Hot Water Moldable.

Also known as: LNP* THERMOCOMP* Compound UF-100-10 A HS HW BK8-115

Product reorder name: UF00ASW

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.65	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.50	%	
Across Flow : 24 hr	0.60 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.27	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.33	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19100	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	214	MPa	
Break	214	MPa	
Tensile Strain			ISO 527-2/5
Yield	1.4	%	
Break	1.5	%	
Flexural Modulus			
50.0 mm Span ¹	17500	MPa	ASTM D790
-- ²	17200	MPa	ISO 178
Flexural Stress			
--	324	MPa	ISO 178
Yield, 50.0 mm Span ³	335	MPa	ASTM D790
Break, 50.0 mm Span ⁴	337	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	91	J/m	ASTM D256
23°C ⁵	9.4	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	790	J/m	ASTM D4812
23°C ⁶	46	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	6.30	J	ASTM D3763
--	3.90	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	297	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁷	296	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	285	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁸	281	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -40 to 40°C	2.4E-5	cm/cm/°C	
Transverse : -40 to 40°C	4.3E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Rear Temperature	316 to 321	°C	
Front Temperature	327 to 332	°C	
Processing (Melt) Temp	320 to 349	°C	
Mold Temperature	49.0 to 104	°C	
Back Pressure	0.170 to 0.500	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	1.3 mm/min		
2.	2.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	80*10*4		
6.	80*10*4		
7.	80*10*4 mm		
8.	80*10*4 mm		

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