

LNP™ THERMOCOMP™ UF006H compound

Polyphthalamide
SABIC Innovative Plastics

Message:

LNP THERMOCOMP UF006H is a compound based on Polyphthalamide resin containing Glass Fiber.
Also known as: LNP* THERMOCOMP* Compound UF-1006
Product reorder name: UF006H

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.53	g/cm ³	ASTM D792
--	1.52	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.40	%	ASTM D955
Transverse flow: 24 hours	0.80	%	ASTM D955
Vertical flow direction: 24 hours	0.77	%	ISO 294-4
Flow direction: 24 hours	0.37	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	13100	MPa	ASTM D638
--	12400	MPa	ISO 527-2/1
Tensile Strength			
Yield	225	MPa	ASTM D638
Yield	208	MPa	ISO 527-2
Fracture	225	MPa	ASTM D638
Fracture	208	MPa	ISO 527-2
Tensile Elongation			
Yield	2.2	%	ASTM D638
Yield	2.0	%	ISO 527-2
Fracture	2.2	%	ASTM D638
Fracture	2.0	%	ISO 527-2
Flexural Modulus	11000	MPa	ASTM D790, ISO 178
Flexural Strength			
--	290	MPa	ASTM D790
--	294	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	110	J/m	ASTM D256
23°C ²	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	680	J/m	ASTM D4812
23°C ³	47	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.30	J	ASTM D3763
--	3.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	305	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	293	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	288	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	282	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	5.0E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	5.1E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	2.9E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	2.8E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	310 - 321	°C	
Middle Temperature	316 - 327	°C	
Front Temperature	327 - 338	°C	
Processing (Melt) Temp	316 - 332	°C	
Mold Temperature	149 - 171	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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