

LNP™ THERMOCOMP™ UF008H compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* UF008H is a compound based on Polyphthalamide resin containing 40% Glass Fiber. Added feature of this grade is: Healthcare.

Also known as: LNP* THERMOCOMP* Compound UF-1008

Product reorder name: UF008H

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.30	%	ASTM D955
Across Flow : 24 hr	1.2	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.27	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.27	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.42	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	16100	MPa	ASTM D638
--	14300	MPa	ISO 527-2/1
Tensile Strength			
Break	237	MPa	ASTM D638
Break	205	MPa	ISO 527-2
Tensile Elongation			
Break	2.1	%	ASTM D638
Break	2.0	%	ISO 527-2
Flexural Modulus			
--	13400	MPa	ASTM D790
--	13800	MPa	ISO 178
Flexural Strength			
--	311	MPa	ASTM D790
--	322	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	85	J/m	ASTM D256
23°C ²	9.0	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	870	J/m	ASTM D4812
23°C ³	52	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	5.10	J	ASTM D3763
--	2.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	282	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	272	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	2.3E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	2.5E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	2.9E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	3.0E-5	cm/cm/°C	ISO 11359-2
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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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