

LNP™ THERMOCOMP™ UF006H compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP UF006H is a compound based on Polyphthalamide resin containing 30% Glass Fiber. Added feature of this grade is: Healthcare.

Also known as: LNP* THERMOCOMP* Compound UF-1006

Product reorder name: UF006H

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Uses	Medical/Healthcare Applications		
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 hr	0.40	%	ASTM D955
Across Flow : 24 hr	0.80	%	ASTM D955
Across Flow : 24 hr	0.77	%	ISO 294-4
Flow : 24 hr	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
Break	225	MPa	ASTM D638
Break	208	MPa	ISO 527-2
Tensile Elongation			
Yield	2.2	%	ASTM D638
Yield	2.0	%	ISO 527-2
Break	2.2	%	ASTM D638
Break	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, 3.20 mm	305	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	293	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	288	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	282	°C	ISO 75-2/Af
CLTE			
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
Transverse : -40 to 40°C	2.9E-5	cm/cm/°C	ASTM E831
Transverse : -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 to 321	°C	
Middle Temperature	316 to 327	°C	
Front Temperature	327 to 338	°C	
Processing (Melt) Temp	316 to 332	°C	
Mold Temperature	149 to 171	°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		
5.	80*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

