

LNP™ THERMOCOMP™ PF006U compound

Polyamide 6

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* PF006U is a compound based on Nylon 6 resin containing 30% Glass Fiber. Added features of this grade are: UV Stabilized.

Also known as: LNP* THERMOCOMP* Compound PF-1006 UV

Product reorder name: PF006U

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	UV Stabilizer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.20 to 0.50	%	ASTM D955
Across Flow : 24 hr	1.0 to 1.2	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.17 to 0.50	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.86	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8760	MPa	ASTM D638
--	8580	MPa	ISO 527-2/1
Tensile Strength			
Break	130	MPa	ASTM D638
Break	128	MPa	ISO 527-2
Tensile Elongation			
Break	2.8	%	ASTM D638
Break	2.9	%	ISO 527-2
Flexural Modulus			
--	6960	MPa	ASTM D790
--	7970	MPa	ISO 178
Flexural Strength			
--	201	MPa	ASTM D790
--	204	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	120	J/m	ASTM D256
23°C ²	8.2	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	830	J/m	ASTM D4812
23°C ³	55	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	9.10	J	ASTM D3763
--	2.68	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	219	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	206	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	203	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	3.1E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.7E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	249 to 260	°C	
Middle Temperature	266 to 277	°C	
Front Temperature	277 to 288	°C	
Processing (Melt) Temp	266 to 277	°C	
Mold Temperature	82.2 to 93.3	°C	
Back Pressure	0.344 to 0.689	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		

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.

Recommended distributors for this material

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