

LNP™ THERMOTUF™ PX06417 compound

Polyamide 6
SABIC Innovative Plastics

Message:

LNP THERMOTUF PX06417 is a compound based on Nylon 6 resin containing 40% Glass Fiber. Added features of this material include: Heat Stabilized, High Impact, UV Stabilized.

Also known as: LNP* THERMOTUF* Compound PF-1008 HI HS UV

Product reorder name: PX06417

General Information			
UL YellowCard	E121562-101281614		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Good UV Resistance		
	Heat Stabilized		
	High Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.90	%	ASTM D955
Across Flow : 24 hr	0.93	%	ISO 294-4
Flow : 24 hr	0.17	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.64	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	12800	MPa	ASTM D638
--	11400	MPa	ISO 527-2/1
Tensile Strength			
Break	153	MPa	ASTM D638
Break	148	MPa	ISO 527-2
Tensile Elongation			
Break	2.4	%	ASTM D638
Break	2.9	%	ISO 527-2
Flexural Modulus			

--	8960	MPa	ASTM D790
--	11000	MPa	ISO 178
Flexural Strength			
--	228	MPa	ASTM D790
--	244	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	150	J/m	ASTM D256
23°C ²	15	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1100	J/m	ASTM D4812
23°C ³	71	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	15.3	J	ASTM D3763
--	4.43	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	220	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	209	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	207	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	2.5E-5	cm/cm/°C	
Transverse : -40 to 40°C	5.6E-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		

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