

LNP™ THERMOTUF™ VF006U compound

Polyamide

SABIC Innovative Plastics

Message:

LNP* THERMOTUF* VF006U is a compound based on Super Tough Nylon containing 30% Glass Fiber. Added features of this material are: UV Stabilized, High Impact.

Also known as: LNP* THERMOTUF* Compound VF-1006 UV

Product reorder name: VF006U

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	UV Stabilizer		
Features	Good UV Resistance		
	High Impact Resistance		
	Ultra High Toughness		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.60	%	
Across Flow : 24 hr	0.90 to 2.0	%	
Water Absorption			
24 hr, 50% RH	0.50	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.72	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7790	MPa	ASTM D638
--	7660	MPa	ISO 527-2/1
Tensile Strength			
Break ²	95.0	MPa	ASTM D638
Break	95.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.2	%	ASTM D638
Break	2.1	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	6140	MPa	ASTM D790
-- ⁵	6740	MPa	ISO 178
Flexural Stress			
--	131	MPa	ISO 178
Yield, 50.0 mm Span ⁶	119	MPa	ASTM D790

Break, 50.0 mm Span ⁷	114	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	83	J/m	ASTM D256
23°C ⁸	9.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	530	J/m	ASTM D4812
23°C ⁹	34	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	17.6	J	ASTM D3763
--	3.60	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	253	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	254	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	235	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	237	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	4.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	9.9E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	260 to 271	°C	
Middle Temperature	277 to 288	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	282 to 293	°C	
Mold Temperature	93.3 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	1.3 mm/min		
8.	80*10*4		
9.	80*10*4		
10.	80*10*4 mm		

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