

LNP™ THERMOTUF™ IX02582 compound

Polyamide 612

SABIC Innovative Plastics

Message:

LNP THERMOTUF IX02582 is a compound based on Nylon 6/12 resin containing Proprietary Filler(s). Added features of this material include: High Impact.

Also known as: LNP* THERMOTUF* Compound PDX-I-02582

Product reorder name: IX02582

General Information			
Filler / Reinforcement	Proprietary		
Features	High Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.16	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.28	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	12100	MPa	ASTM D638
--	11800	MPa	ISO 527-2/1
Tensile Strength			
Break ²	156	MPa	ASTM D638
Break	157	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.8	%	ASTM D638
Break	2.8	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	9700	MPa	ASTM D790
-- ⁵	9980	MPa	ISO 178
Flexural Stress			
--	233	MPa	ISO 178
Yield, 50.0 mm Span ⁶	233	MPa	ASTM D790
Break, 50.0 mm Span ⁷	235	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	160	J/m	ASTM D256
23°C ⁸	16	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ⁹	62	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	20.0	J	ASTM D3763
--	5.10	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	214	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	210	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	198	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	196	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.9E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.5E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.12 to 0.20	%	
Rear Temperature	254 to 266	°C	
Middle Temperature	260 to 271	°C	
Front Temperature	271 to 282	°C	
Processing (Melt) Temp	271 to 277	°C	
Mold Temperature	65.6 to 93.3	°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		
11.	80*10*4 mm		

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