

LNP™ THERMOTUF™ PX95726 compound

Polyamide 6

SABIC Innovative Plastics

Message:

LNP* THERMOTUF* PX95726 is a compound based on Nylon 6 resin containing Proprietary Filler(s). Added features of this material include: Heat Stabilized, High Impact.

Also known as: LNP* THERMOTUF* Compound PDX-P-95726

Product reorder name: PX95726

General Information			
Filler / Reinforcement	Proprietary		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.60	%	
Across Flow : 24 hr	0.80 to 1.1	%	
Water Absorption			
24 hr, 50% RH	1.1	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.6	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	5840	MPa	ASTM D638
--	5800	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	111	MPa	ASTM D638
Yield	109	MPa	ISO 527-2/5
Break	107	MPa	ASTM D638
Break ³	108	MPa	ASTM D638
Break	105	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	3.1	%	ASTM D638
Yield	3.1	%	ISO 527-2/5
Break ⁵	3.7	%	ASTM D638
Break	3.8	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	4960	MPa	ASTM D790

--	5030	MPa	ASTM D790
-- ⁷	4790	MPa	ISO 178
Flexural Strength			
--	171	MPa	ASTM D790
--	160	MPa	ISO 178
Yield, 50.0 mm Span ⁸	173	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	68	J/m	ASTM D256
23°C ⁹	6.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	880	J/m	ASTM D4812
23°C ¹⁰	53	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	11.3	J	ASTM D3763
--	2.60	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	214	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	201	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	191	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	4.4E-5	cm/cm/°C	
Transverse : -30 to 30°C	1.4E-4	cm/cm/°C	
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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		

7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4
10.	80*10*4
11.	80*10*4 mm
12.	80*10*4 mm

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