

LNP™ THERMOTUF™ QX01581H compound

Polyamide 610

SABIC Innovative Plastics Asia Pacific

Message:

LNP THERMOTUF QX01581H is a compound based on Nylon 6/10 resin containing Glass Fiber. Added features of this material include: High Impact.

Also known as: LNP* THERMOTUF* Compound PDX-Q-01581

Product reorder name: QX01581H

General Information			
Filler / Reinforcement	Glass Fiber		
Features	High Impact Resistance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.30	%	ASTM D955, ISO 294-4
Across Flow : 24 hr	0.90 to 1.1	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.20	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8480	MPa	ASTM D638
--	7880	MPa	ISO 527-2/1
Tensile Strength			
Break	140	MPa	ASTM D638
Break	134	MPa	ISO 527-2
Tensile Elongation			
Break	3.4	%	ASTM D638
Break	3.6	%	ISO 527-2
Flexural Modulus			
--	7030	MPa	ASTM D790
--	7250	MPa	ISO 178
Flexural Strength			
--	207	MPa	ASTM D790
--	208	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	360	J/m	ASTM D256
23°C ²	15	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1200	J/m	ASTM D4812

23°C ³	73	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	9.30	J	ASTM D3763
--	3.52	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	208	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	205	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	3.1E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	3.2E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	8.8E-5	cm/cm/°C	ASTM E831, ISO 11359-2
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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