

SABIC Innovative Plastics LNP THERMOTUF QX01581H PA 6/10 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOTUF-QX01581H-PA-610-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.300 %	0.300 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	134 MPa	19400 psi	ISO 527
	139 MPa	20200 psi	ASTM D638
Elongation at Break	3.4 %	3.4 %	ASTM D638
	3.6 %	3.6 %	ISO 527
Tensile Modulus	7.88 GPa	1140 ksi	1 mm/min; ISO 527
	8.48 GPa	1230 ksi	50 mm/min; ASTM D638
Flexural Strength	206 MPa	29900 psi	ASTM D790
	208 MPa	30200 psi	ISO 178

Flexural Modulus Mechanical Properties	7.03 GPa Metric	1020 ksi English	ASTM D790 Comments
	7.25 GPa	1050 ksi	ISO 178
Izod Impact, Notched	3.57 J/cm	6.69 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.58 J/cm	21.69 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	73.0 kJ/m ²	34.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.6 Åµm/m-Å°C	17.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	32.2 Åµm/m-Å°C	17.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	88.2 Åµm/m-Å°C	49.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	88.2 Åµm/m-Å°C	49.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	205 Å°C	401 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af unannealed; ASTM D648
	208 Å°C @Thickness 3.20 mm	406 Å°F @Thickness 0.126 in	

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