LNP™ THERMOTUF™ COMPOUND QX01581H

PDX-Q-01581
REGION ASIA

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20190730

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	139	MPa	ASTM D 638
Tensile Strain, break	3.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	8480	MPa	ASTM D 638
Flexural Stress	206	MPa	ASTM D 790
Flexural Modulus	7030	MPa	ASTM D 790
Tensile Stress, break	134	MPa	ISO 527
Tensile Strain, break	3.6	%	ISO 527
Tensile Modulus, 1 mm/min	7880	MPa	ISO 527
Flexural Stress	208	MPa	ISO 178
Flexural Modulus	7250	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1158	J/m	ASTM D 4812
Izod Impact, notched, 23°C	357	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	9	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	73	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	15	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	208	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.06E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	8.82E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	3.22E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.82E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	205	°C	ISO 75/Af
PHYSICAL			
Density	1.3	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1 – 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.9 – 1.1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.1 – 0.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.9 – 1.1	%	ISO 294
Density	1.3	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.3	%	ISO 62

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