LNP™ THERMOCOMP™ COMPOUND UC008H

UC-1008
REGION ASIA

DESCRIPTION

LNP THERMOCOMP* UC008H is a compound based on Polyphthalamide resin containing 40% Carbon Fiber. Added features of this material include: Electrically Conductive, Healthcare.

TYPICAL PROPERTY VALUES

Revision 20190718

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	261	MPa	ASTM D 638
Tensile Strain, break	1	%	ASTM D 638
Tensile Modulus, 50 mm/min	33780	MPa	ASTM D 638
Flexural Stress	441	MPa	ASTM D 790
Flexural Modulus	26820	MPa	ASTM D 790
Tensile Stress, break	232	MPa	ISO 527
Tensile Strain, break	1.3	%	ISO 527
Tensile Modulus, 1 mm/min	35530	MPa	ISO 527
Flexural Stress	425	MPa	ISO 178
Flexural Modulus	26590	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	328	J/m	ASTM D 4812
Izod Impact, notched, 23°C	58	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	7	J	ASTM D 3763
Multiaxial Impact	5	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	45	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	>248	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	>250	°C	ISO 75/Af
PHYSICAL			
Density	1.38	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.4	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.7 – 0.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7 – 0.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.7 – 0.9	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.7 – 0.9	%	ISO 294
Moisture Absorption (23°C / 50% RH)	0.46 – 1.38	%	ISO 62
ELECTRICAL			
Volume Resistivity	100 – 10000	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+02 – 1.E+04	Ohm	ASTM D 257

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