LNP™ THERMOCOMP™ COMPOUND UF008H

UF-1008
REGION ASIA

DESCRIPTION

LNP THERMOCOMP* UF008H is a compound based on Polyphthalamide resin containing 40% Glass Fiber. Added feature of this grade is: Healthcare.

TYPICAL PROPERTY VALUES

Revision 20181230

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	236	MPa	ASTM D 638
Tensile Strain, break	2.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	16130	MPa	ASTM D 638
Flexural Stress	311	MPa	ASTM D 790
Flexural Modulus	13440	MPa	ASTM D 790
Tensile Stress, break	205	MPa	ISO 527
Tensile Strain, break	2	%	ISO 527
Tensile Modulus, 1 mm/min	14340	MPa	ISO 527
Flexural Stress	321	MPa	ISO 178
Flexural Modulus	13800	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	870	J/m	ASTM D 4812
Izod Impact, notched, 23°C	85	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	5	J	ASTM D 3763
Multiaxial Impact	2	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	51	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	281	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.34E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.88E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	2.48E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	3.01E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	272	°C	ISO 75/Af
PHYSICAL			
Density	1.55	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.27	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.2	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.27	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.23	%	ISO 294
Density	1.54	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.42	%	ISO 62

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15	%	
Melt Temperature	315 – 330	°C	
Front - Zone 3 Temperature	325 – 340	°C	
Middle - Zone 2 Temperature	315 – 325	°C	
Rear - Zone 1 Temperature	310 – 320	°C	
Mold Temperature	140 – 165	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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