LNP™ THERMOCOMP™ COMPOUND UF00BAS

UF-100-11 A HS

DESCRIPTION

LNP THERMOCOMP UF00BAS is a compound based on Polyphthalamide containing 55% Glass Fiber. Added feature of this material is: Heat Stabilized.

TYPICAL PROPERTY VALUES

Revision 20191219

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	246	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.8	%	ASTM D 638
Tensile Modulus, 5 mm/min	19240	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	338	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	17300	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	227	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.6	%	ISO 527
Tensile Modulus, 1 mm/min	18870	MPa	ISO 527
Flexural Stress	314	MPa	ISO 178
Flexural Modulus, 2 mm/min	15910	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	291	J/m	ASTM D 4812
Izod Impact, notched, 23°C	82	J/m	ASTM D 256
Multiaxial Impact	1	J	ISO 6603
Instrumented Impact Total Energy, 23°C	5	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	34	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	289	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	270	°C	ASTM D 648
CTE, -30°C to 30°C, flow	3.5E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	2.8E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	293	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	272	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.64	-	ASTM D 792
Density	1.6	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.13	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2 – 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1 – 3	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.21	%	ISO 62
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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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