



LNP™ THERMOCOMP™ Compound UF00ASW

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound UF-100-10 A HS HW BK8-115

Product reorder name: UF00ASW

LNP THERMOCOMP UF00ASW is a compound based on Polyphthalamide (PPA) containing glass fiber. Characteristics of this grade of Heat Stabilized and Hot Water Moldable.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Flexural Stress, yld, 1.3 mm/min, 50 mm span	3410	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	3430	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	178400	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	214	MPa	ISO 527
Tensile Stress, break, 5 mm/min	214	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.4	%	ISO 527
Tensile Strain, break, 5 mm/min	1.4	%	ISO 527
Tensile Modulus, 1 mm/min	19060	MPa	ISO 527
Flexural Stress	324	MPa	ISO 178
Flexural Modulus, 2 mm/min	17240	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	80	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	9	cm-kgf/cm	ASTM D 256
Multiaxial Impact	39	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	64	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	45	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	297	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	285	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.4E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.3E-05	1/°C	ASTM E 831
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	296	°C	ISO 75/Bf



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	281	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.65	-	ASTM D 792
Density	1.65	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.27	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.6 - 0.9	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.33	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Melt Temperature	320 - 350	°C
Front - Zone 3 Temperature	325 - 330	°C
Rear - Zone 1 Temperature	315 - 320	°C
Mold Temperature	50 - 105	°C
Back Pressure	0.2 - 0.5	MPa
Screw Speed	30 - 60	rpm