



LNP™ THERMOCOMP™ Compound UF009S

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound UF-1009 HS

Product reorder name: UF009S

LNP THERMOCOMP™ UF009S is a compound based on Polyphthalamide resin containing 45% Glass Fiber. Added features of this material include: Heat Stabilized.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	2470	kgf/cm ²	ASTM D 638
Tensile Strain, break	1.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	207500	kgf/cm ²	ASTM D 638
Flexural Stress	4000	kgf/cm ²	ASTM D 790
Flexural Modulus	191300	kgf/cm ²	ASTM D 790
Tensile Stress, break	253	MPa	ISO 527
Tensile Strain, break	1.8	%	ISO 527
Tensile Modulus, 1 mm/min	22740	MPa	ISO 527
Flexural Stress	386	MPa	ISO 178
Flexural Modulus	18330	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	137	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	17	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	159	cm-kgf	ASTM D 3763
Multiaxial Impact	44	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	82	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	14	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	258	°C	ASTM D 648
PHYSICAL			
Density	1.645	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.25	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5	%	ASTM D 955



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PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	0.18	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.46	%	ISO 294
Density	1.64	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.37	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
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