



LNP™ THERMOCOMP™ Compound RF00AH

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound RF-100-10 HC

Product reorder name: RF00AH

LNP THERMOCOMP RF00AH is a compound based on Nylon 66 resin containing 50% Glass Fiber. Added feature of this grade is: Healthcare.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1690	kgf/cm ²	ASTM D 638
Tensile Strain, break	7.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	175700	kgf/cm ²	ASTM D 638
Flexural Stress	2670	kgf/cm ²	ASTM D 790
Flexural Modulus	147600	kgf/cm ²	ASTM D 790
Tensile Stress, break	182	MPa	ISO 527
Tensile Strain, break	8.1	%	ISO 527
Tensile Modulus, 1 mm/min	17810	MPa	ISO 527
Flexural Stress	265	MPa	ISO 178
Flexural Modulus	14900	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	95	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	9	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	60	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	11	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	252	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	243	°C	ASTM D 648
CTE, -40°C to 40°C, flow	5.22E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.16E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	5.1E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.2E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	243	°C	ISO 75/Af



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Density	1.6	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.4	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.1 - 1.3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.37	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.2	%	ISO 294
Density	1.6	g/cm ³	ISO 1183



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	280 - 305	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	95 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm