



LNP™ THERMOCOMP™ Compound DF008ERH

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound DF-1008 EM MR HC

Product reorder name: DF008ERH

LNP THERMOCOMP™ DF008ERH is a compound based on Polycarbonate resin containing 40% Glass Fiber. Added features of this material include: Easy Molding, Mold Release, Healthcare.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1390	kgf/cm ²	ASTM D 638
Tensile Strain, break	2.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	120500	kgf/cm ²	ASTM D 638
Flexural Stress	2080	kgf/cm ²	ASTM D 790
Flexural Modulus	114800	kgf/cm ²	ASTM D 790
Tensile Stress, break	136	MPa	ISO 527
Tensile Strain, break	2.2	%	ISO 527
Tensile Modulus, 1 mm/min	11170	MPa	ISO 527
Flexural Stress	203	MPa	ISO 178
Flexural Modulus	10970	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	82	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	22	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	138	cm-kgf	ASTM D 3763
Multiaxial Impact	26	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	53	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	11	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	136	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.25E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.5E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	3.26E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	3.51E-05	1/°C	ISO 11359-2



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	137	°C	ISO 75/Af
PHYSICAL			
Moisture Absorption, 50% RH, 24 hrs	0.93	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.16	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.35	%	ISO 294
Moisture Absorption (23°C / 50% RH)	0.12	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	305 - 325	°C
Front - Zone 3 Temperature	320 - 330	°C
Middle - Zone 2 Temperature	310 - 320	°C
Rear - Zone 1 Temperature	295 - 305	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm