



LNP™ THERMOCOMP™ Compound SF008

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound SF-1008

Product reorder name: SF008

LNP THERMOCOMP SF008 is a compound based on Nylon 12 resin containing 40% Glass Fiber.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1380	kgf/cm ²	ASTM D 638
Tensile Strain, break	10.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	84300	kgf/cm ²	ASTM D 638
Flexural Stress	980	kgf/cm ²	ASTM D 790
Flexural Modulus	77300	kgf/cm ²	ASTM D 790
Tensile Stress, break	152	MPa	ISO 527
Tensile Strain, break	9	%	ISO 527
Tensile Modulus, 1 mm/min	8760	MPa	ISO 527
Flexural Stress	213	MPa	ISO 178
Flexural Modulus	9000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	147	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	26	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	75	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	18	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	176	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	170	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	166	°C	ISO 75/Af
PHYSICAL			
Density	1.37	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7	%	ASTM D 955



LNP™ THERMOCOMP™ Compound SF008

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	0.18	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.73	%	ISO 294
Density	1.37	g/cm ³	ISO 1183



LNP™ THERMOCOMP™ Compound SF008

Americas: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.12 - 0.2	%
Melt Temperature	225 - 240	°C
Front - Zone 3 Temperature	225 - 240	°C
Middle - Zone 2 Temperature	220 - 230	°C
Rear - Zone 1 Temperature	215 - 225	°C
Mold Temperature	70 - 80	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm