



LNP™ THERMOCOMP™ Compound SF006

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound SF-1006

Product reorder name: SF006

LNP THERMOCOMP™ SF006 is a compound based on Nylon 12 resin containing 30% Glass Fiber.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1080	kgf/cm ²	ASTM D 638
Tensile Strain, break	4.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	66700	kgf/cm ²	ASTM D 638
Flexural Stress	1740	kgf/cm ²	ASTM D 790
Flexural Modulus	59700	kgf/cm ²	ASTM D 790
Tensile Stress, break	108	MPa	ISO 527
Tensile Strain, break	4.6	%	ISO 527
Tensile Modulus, 1 mm/min	6580	MPa	ISO 527
Flexural Stress	169	MPa	ISO 178
Flexural Modulus	6240	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	96	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	15	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	132	cm-kgf	ASTM D 3763
Multiaxial Impact	36	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	58	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	15	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	163	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.37E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.12E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.37E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.13E-04	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	162	°C	ISO 75/Af
PHYSICAL			
Density	1.243	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.14	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 - 0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.21 - 0.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.74 - 0.81	%	ISO 294
Density	1.24	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.22	%	ISO 62



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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