



LNP™ THERMOCOMP™ Compound JF006

Americas: COMMERCIAL

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

Product reorder name: JF006

LNP THERMOCOMP JF006 is a compound based on Polyethersulfone resin containing 30% Glass Fiber.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1450	kgf/cm ²	ASTM D 638
Tensile Strain, break	2.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	109600	kgf/cm ²	ASTM D 638
Flexural Stress	2140	kgf/cm ²	ASTM D 790
Flexural Modulus	99100	kgf/cm ²	ASTM D 790
Tensile Stress, break	136	MPa	ISO 527
Tensile Strain, break	2.1	%	ISO 527
Tensile Modulus, 1 mm/min	9450	MPa	ISO 527
Flexural Stress	207	MPa	ISO 178
Flexural Modulus	10000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	62	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	9	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	109	cm-kgf	ASTM D 3763
Multiaxial Impact	42	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	40	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	210	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.06E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.6E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	3.11E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	3.73E-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	210	°C	ISO 75/Af
PHYSICAL			
Density	1.584	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.34	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.27	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.48	%	ISO 294
Wear Factor Washer	170	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.52	-	ASTM D 3702 Modified
Static COF	0.57	-	ASTM D 3702 Modified
Density	1.58	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.46	%	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	0.05	%
Melt Temperature	355 - 370	°C
Front - Zone 3 Temperature	370 - 380	°C
Middle - Zone 2 Temperature	360 - 370	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	140 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm

