



LNP™ THERMOCOMP™ Compound JF008E

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound JF-1008 EM

Product reorder name: JF008E

LNP THERMOCOMP JF008E is a compound based on Polyethersulfone containing 40% Glass Fiber. Characteristics of this grade are: Easy Molding.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	1540	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	1540	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.7	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	156800	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	2130	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2120	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	125300	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	146	MPa	ISO 527
Tensile Stress, break, 5 mm/min	146	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.5	%	ISO 527
Tensile Strain, break, 5 mm/min	1.5	%	ISO 527
Tensile Modulus, 1 mm/min	13760	MPa	ISO 527
Flexural Stress	207	MPa	ISO 178
Flexural Modulus, 2 mm/min	12170	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	57	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
Multiaxial Impact	24	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	135	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	34	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A



LNP™ THERMOCOMP™ Compound JF008E

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	212	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	207	°C	ASTM D 648
CTE, -30°C to 30°C, flow	5.E-06	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.E-06	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	231	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	211	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.69	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.32	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5 - 0.7	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.49	%	ISO 62



LNP™ THERMOCOMP™ Compound JF008E

Americas: COMMERCIAL

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