



LNP™ THERMOCOMP™ Compound 9X11428J

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound 9X11428J

Product reorder name: 9X11428J

LNP THERMOCOMP 9X11428J is a compound based on Polyphenylsulfone containing Proprietary Fillers. Added features of this material include: Healthcare, Low Extractable.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	750	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	590	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	8	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	15	%	ASTM D 638
Tensile Modulus, 5 mm/min	24300	kgf/cm ²	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	24700	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	71	MPa	ISO 527
Tensile Stress, break, 5 mm/min	57	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	7	%	ISO 527
Tensile Strain, break, 5 mm/min	22	%	ISO 527
Tensile Modulus, 1 mm/min	2330	MPa	ISO 527
Flexural Stress	91	MPa	ISO 178
Flexural Modulus, 2 mm/min	2270	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	19	cm-kgf/cm	ASTM D 256
Multiaxial Impact	448	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	437	cm-kgf	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	213	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	199	°C	ASTM D 648
CTE, -30°C to 30°C, flow	5.5E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	5.5E-05	1/°C	ASTM D 696



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THERMAL			
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	210	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	196	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.34	-	ASTM D 792
Density	1.34	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.29	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.9 - 2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1 - 3	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.4	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	240 - 265	°C
Front - Zone 3 Temperature	260 - 270	°C
Middle - Zone 2 Temperature	245 - 255	°C
Rear - Zone 1 Temperature	220 - 230	°C
Mold Temperature	80 - 100	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm