



LNP™ THERMOCOMP™ Compound 4X08423

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound 4X08423

Product reorder name: 4X08423

LNP THERMOCOMP 4X08423 is a compound based on PFA resin containing Glass Fiber.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	400	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	360	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	3.3	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3.6	%	ASTM D 638
Tensile Modulus, 5 mm/min	47600	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	490	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	33600	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	40	MPa	ISO 527
Tensile Stress, break, 5 mm/min	39	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3.3	%	ISO 527
Tensile Strain, break, 5 mm/min	3.4	%	ISO 527
Tensile Modulus, 1 mm/min	4600	MPa	ISO 527
Flexural Stress	60	MPa	ISO 178
Flexural Modulus, 2 mm/min	4370	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	60	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	26	cm-kgf/cm	ASTM D 256
Multiaxial Impact	48	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	111	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	45	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	23	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	297	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	243	°C	ASTM D 648
CTE, -30°C to 30°C, flow	5.2E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	8.9E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	259	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	158	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	2.2	-	ASTM D 792
Density	2.2	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	2 - 4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2 - 4	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.01	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	150	°C
Drying Time	4	hrs
Drying Time (Cumulative)	4	hrs
Melt Temperature	360	°C
Nozzle Temperature	365	°C
Front - Zone 3 Temperature	360	°C
Middle - Zone 2 Temperature	360	°C
Rear - Zone 1 Temperature	360	°C
Hopper Temperature	45	°C
Mold Temperature	150	°C
Back Pressure	3.5	MPa
Screw Speed	60	rpm