



LNP* Thermocomp* Compound DF0089

Americas: COMMERCIAL

Also known as: LNP* Thermocomp* Compound DF-1008 FR LEX

Product reorder name: DF0089

LNP THERMOCOMP* DF0089 is a compound based on Polycarbonate resin containing Glass Fiber, Flame Retardant. Added features of this material include: Flame Retardant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, break	1340	kgf/cm ²	ASTM D 638
Tensile Strain, break	1.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	139900	kgf/cm ²	ASTM D 638
Flexural Stress	1940	kgf/cm ²	ASTM D 790
Flexural Modulus	120200	kgf/cm ²	ASTM D 790
Tensile Stress, break	130	MPa	ISO 527
Tensile Strain, break	1.6	%	ISO 527
Tensile Modulus, 1 mm/min	12400	MPa	ISO 527
Flexural Stress	203	MPa	ISO 178
Flexural Modulus	12500	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	54	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	9	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	82	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	46	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	137	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	138	°C	ISO 75/Af
PHYSICAL			
Density	1.589	g/cm ³	ASTM D 792
Density	1.58	g/cm ³	ISO 1183
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	1.6	mm	UL 94 by GE



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PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	305 - 325	°C
Front - Zone 3 Temperature	320 - 330	°C
Middle - Zone 2 Temperature	310 - 320	°C
Rear - Zone 1 Temperature	295 - 305	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm