



LNP™ THERMOCOMP™ Compound LX08411

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound LX08411

Product reorder name: LX08411

LNP THERMOCOMP LX08411 is a compound based on Polyetheretherketone resin containing Carbon Fiber. Added feature of this material is: Opaque.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	2750	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	2750	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.8	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	239700	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	3730	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	3730	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	254900	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	79	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	341	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	327	°C	ASTM D 648
PHYSICAL			
Density	1.45	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.03	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.28	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.75 - 0.85	%	ASTM D 955



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	150	°C
Drying Time	4 - 6	hrs
Front - Zone 3 Temperature	380 - 400	°C
Middle - Zone 2 Temperature	380 - 400	°C
Rear - Zone 1 Temperature	370 - 380	°C
Mold Temperature	175 - 190	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm