



LNP™ THERMOCOMP™ Compound LF005

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound LF-1005

Product reorder name: LF005

LNP THERMOCOMP LF005 is a compound based on Polyetheretherketone resin containing 25% Glass Fiber.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	1590	kgf/cm ²	ASTM D 638
Tensile Stress, break	1590	kgf/cm ²	ASTM D 638
Tensile Strain, yield	2.7	%	ASTM D 638
Tensile Strain, break	2.7	%	ASTM D 638
Tensile Modulus, 5 mm/min	119500	kgf/cm ²	ASTM D 638
Flexural Stress	2530	kgf/cm ²	ASTM D 790
Flexural Modulus	91300	kgf/cm ²	ASTM D 790
Tensile Stress, yield	158	MPa	ISO 527
Tensile Stress, break	158	MPa	ISO 527
Tensile Strain, yield	2.6	%	ISO 527
Tensile Strain, break	2.7	%	ISO 527
Tensile Modulus, 1 mm/min	11400	MPa	ISO 527
Flexural Stress	243	MPa	ISO 178
Flexural Modulus	8600	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	95	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	9	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	148	cm-kgf	ASTM D 3763
Multiaxial Impact	35	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	60	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m ²	ISO 180/1A
THERMAL			
CTE, -40°C to 40°C, flow	5.4E-06	1/°C	ASTM E 831



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, xflow	1.8E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	5.17E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.94E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	239	°C	ISO 75/Af
PHYSICAL			
Density	1.48	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.5 - 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1 - 1.2	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.64	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.1	%	ISO 294
Density	1.48	g/cm ³	ISO 1183



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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