



LNP™ THERMOCOMP™ Compound 2C003

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound FP-EC-1003

Product reorder name: 2C003

LNP THERMOCOMP 2C003 is a compound based on ETFE resin containing 15% Carbon Fiber. Added features of this material include: Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	920	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	910	kgf/cm ²	ASTM D 638
Tensile Strain, break	4.9	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	4.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	119400	kgf/cm ²	ASTM D 638
Flexural Stress	1400	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1400	kgf/cm ²	ASTM D 790
Flexural Modulus	112400	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	112400	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	126	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	35	cm-kgf/cm	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	207	°C	ASTM D 648
PHYSICAL			
Density	1.73	g/cm ³	ASTM D 792





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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Melt Temperature	315	°C
Front - Zone 3 Temperature	325 - 340	°C
Middle - Zone 2 Temperature	300 - 325	°C
Rear - Zone 1 Temperature	280 - 300	°C
Mold Temperature	90 - 120	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

