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/cm²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	910	kgf/cm²	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/cm²	ASTM D 638
Flexural Stress	1400	kgf/cm²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1400	kgf/cm²	ASTM D 790
Flexural Modulus	112400	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	112400	kgf/cm²	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/cm³	ASTM D 792

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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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

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