



LNP™ THERMOCOMP™ Compound 2F006

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound FP-EF-1006

Product reorder name: 2F006

LNP THERMOCOMP 2F006 is a compound based on ETFE containing 30% Glass Fiber.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	810	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	800	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	4.9	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	5.2	%	ASTM D 638
Tensile Modulus, 5 mm/min	91000	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1190	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	77900	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	75	MPa	ISO 527
Tensile Stress, break, 5 mm/min	74	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	4.6	%	ISO 527
Tensile Strain, break, 5 mm/min	5	%	ISO 527
Tensile Modulus, 1 mm/min	8080	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	115	MPa	ISO 178
Flexural Modulus, 2 mm/min	7520	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	106	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	35	cm-kgf/cm	ASTM D 256
Multiaxial Impact	81	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	173	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	67	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	28	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	254	°C	ASTM D 648

(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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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	215	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.6E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.5E-05	1/°C	ASTM E 831
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	246	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	187	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.9	-	ASTM D 792
Density	1.91	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.01	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.02	%	ISO 62

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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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