LNP™ THERMOCOMP™ Compound OCF62E

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound OCF-1008 EM

Product reorder name: OCF62E

LNP THERMOCOMP OCF62E is a compound based on PPS-Branched resin containing 10% Carbon Fiber, 30% Glass Fiber. Added feature of this material includes: Easy Molding

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	1600	kgf/cm²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	1600	kgf/cm²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	0.7	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	0.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	309100	kgf/cm²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	2090	kgf/cm²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2100	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	194400	kgf/cm²	ASTM D 790
Tensile Stress, yield, 5 mm/min	133	MPa	ISO 527
Tensile Stress, break, 5 mm/min	133	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	0.5	%	ISO 527
Tensile Strain, break, 5 mm/min	0.5	%	ISO 527
Tensile Modulus, 1 mm/min	28600	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	46	MPa	ISO 178
Flexural Modulus, 2 mm/min	20560	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	26	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	6	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	13	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	280	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	267	°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			
CTE, -40°C to 40°C, flow	1.02E+00	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.57E+00	1/°C	ASTM E 831
CTE, 23°C to 60°C, flow	1.02E+00	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	4.6E+00	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	281	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	268	°C	ISO 75/Af
PHYSICAL			
Density	1.66	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 - 1	%	ASTM D 955
Density	1.66	g/cm³	ISO 1183

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(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Melt Temperature	315 - 320	°C
Front - Zone 3 Temperature	330 - 345	°C
Middle - Zone 2 Temperature	320 - 330	°C
Rear - Zone 1 Temperature	305 - 315	°C
Mold Temperature	140 - 165	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

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