

LNPTM THERMOCOMPTM COMPOUND OCF62E

OCF-1008 EM

DESCRIPTION

LNP THERMOCOMP OCF62E compound is based on linear Polyphenylene Sulfide (PPS) resin containing 10% carbon fiber, 30% glass fiber. Added features of this grade include: Electrically Conductive, Easy Molding

GENERAL INFORMATION	
Features	Electrically Conductive, Good Processability, Carbon fiber filled, High stiffness/Strength, No PFAS intentionally added
Fillers	Carbon Fiber, Glass Fiber
Polymer Types	Polyphenylene Sulfide, Linear (PPS, Linear)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

PROPERTIES **TYPICAL VALUES** UNITS **TEST METHODS** MECHANICAL (1) Tensile Stress, yld, Type I, 5 mm/min 157 MPa ASTM D638 MPa Tensile Stress, brk, Type I, 5 mm/min 157 ASTM D638 Tensile Strain, yld, Type I, 5 mm/min 0.7 % ASTM D638 Tensile Strain, brk, Type I, 5 mm/min 0.7 % ASTM D638 ASTM D638 Tensile Modulus, 5 mm/min 30320 MPa Flexural Stress, yld, 1.3 mm/min, 50 mm span 205 MPa ASTM D790 Flexural Stress, brk, 1.3 mm/min, 50 mm span 206 MPa ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 19070 MPa ASTM D790 Tensile Stress, yield, 5 mm/min 133 MPa ISO 527 Tensile Stress, break, 5 mm/min 133 MPa ISO 527 0.5 ISO 527 Tensile Strain, yield, 5 mm/min % 0.5 ISO 527 Tensile Strain, break, 5 mm/min % Tensile Modulus, 1 mm/min 28600 MPa ISO 527 Flexural Modulus, 2 mm/min 20560 MPa ISO 178 IMPACT (1) Izod Impact, unnotched, 23°C 260 ASTM D4812 J/m Izod Impact, notched, 23°C 63 J/m ASTM D256 13 Izod Impact, unnotched 80*10*4 +23°C kJ/m² ISO 180/1U ISO 180/1A Izod Impact, notched 80*10*4 +23°C 6 kJ/m²

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CHEMISTRY THAT MATTERS

Revision 20231109



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
THERMAL ⁽¹⁾			
HDT, 0.45 MPa, 3.2 mm, unannealed	280	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	267	°C	ASTM D648
CTE, -40°C to 40°C, flow	1.02E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	4.6E-05	1/°C	ASTM E831
CTE, 23°C to 60°C, flow	1.02E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	4.6E-05	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 ⁽¹⁾			
Density	1.66	g/cm³	ASTM D792
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.1 – 0.4	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.7 – 1	%	ASTM D955
Density	1.66	g/cm³	ISO 1183
INJECTION MOLDING ⁽³⁾			
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	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) 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.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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