LNP™ THERMOCOMP™ Compound JF004E

JF-1004 EM
REGION EUROPE

DESCRIPTION

LNP THERMOCOMP JF004E compound is based on Polyethersulfone (PES) resin containing 20% glass fiber. Added features of this grade include: Easy Molding.

GENERAL INFORMATION	
Features	Good Processability, High stiffness/Strength, High temperature resistance, No PFAS intentionally added
Fillers	Glass Fiber (Total fluorine >50ppm only from inorganic fluorine)
Polymer Types	Polyethersulfone (PESU)
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

Revision 20260204

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, break, 5 mm/min	128	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.5	%	ISO 527
Tensile Modulus, 1 mm/min	7350	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	178	MPa	ISO 178
Flexural Modulus, 2 mm/min	6000	MPa	ISO 178
IMPACT [1]			
Izod Impact, unnotched 80*10*4 +23°C	30	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
THERMAL [1]			
CTE, 23°C to 60°C, flow	2.4E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	5.5E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	223	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	218	°C	ISO 75/Af
Relative Temp Index, Elec	180	°C	UL 746B
Relative Temp Index, Mech w/impact	180	°C	UL 746B
Relative Temp Index, Mech w/o impact	180	°C	UL 746B
PHYSICAL [1]			
Mold Shrinkage on Tensile Bar, flow [2]	0.25 – 0.45	%	SABIC method
Density	1.51	g/cm³	ISO 1183

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
FLAME CHARACTERISTICS [3]			
UL Yellow Card Link	E45329-101283859	-	-
UL Recognized, 94V-0 Flame Class Rating	0.81	mm	UL 94

(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) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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