LNP™ THERMOCOMP™ COMPOUND JF004E

JF-1004 EM
REGION ASIA

DESCRIPTION

LNP THERMOCOMP JF004E is a compound based on Polyethersulfone resin containing 20% Glass Fiber. Added features of this material include: Easy Molding.

TYPICAL PROPERTY VALUES

Revision 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	114	MPa	ASTM D 638
Tensile Strain, break	2.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	7350	MPa	ASTM D 638
Flexural Stress	186	MPa	ASTM D 790
Flexural modulus	6690	MPa	ASTM D 790
Tensile Stress, break	109	MPa	ISO 527
Tensile Strain, break	2.9	%	ISO 527
Tensile Modulus, 1 mm/min	7350	MPa	ISO 527
Flexural Stress	183	MPa	ISO 178
Flexural Modulus	7590	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	427	J/m	ASTM D 4812
Izod Impact, notched, 23°C	58	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	16	J	ASTM D 3763
Multiaxial Impact	4	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	73	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	205	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	205	°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			
Density	1.51	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.4	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.5 – 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.6 – 0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.5 – 0.7	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.6 – 0.8	%	ISO 294
Density	1.51	g/cm³	ISO 1183
FLAME CHARACTERISTICS [1]			

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
UL Yellow Card Link	E207780-101283849	-	-
UL Recognized, 94V-0 Flame Class Rating	0.81	mm	UL 94

(1) 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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