

LNPTM THERMOCOMPTM COMPOUND JF006LZZ

JF-1006 E LE

DESCRIPTION

LNP THERMOCOMPTM JF006LZZ is a compound based on Polyethersulfone resin containing 30% Glass Fiber. Added features of this material include: Extrusion Grade, Low Extractable.

TYPICAL PROPERTY VALUES

Revision 20191213

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	113	MPa	ASTM D 638
Tensile Strain, break	1.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	9790	MPa	ASTM D 638
Flexural Stress	178	MPa	ASTM D 790
Flexural Modulus	9230	MPa	ASTM D 790
Tensile Stress, break	99	MPa	ISO 527
Tensile Strain, break	1.4	%	ISO 527
Tensile Modulus, 1 mm/min	10190	MPa	ISO 527
Flexural Stress	222	MPa	ISO 178
Flexural Modulus	9240	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	432	J/m	ASTM D 4812
Izod Impact, notched, 23°C	58	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	12	J	ASTM D 3763
Multiaxial Impact	2	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	29	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	217	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	212	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.63E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	3.01E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	3.64E-05	1/°C	ISO 11359-2
PHYSICAL			
Density	1.613	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.36	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.25	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.69	%	ISO 294
Density	1.6	g/cm ³	ISO 1183
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time	4	hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	355 – 370	°C	
Front - Zone 3 Temperature	370 – 380	°C	
Middle - Zone 2 Temperature	360 – 370	°C	
Rear - Zone 1 Temperature	345 – 355	°C	
Mold Temperature	140 – 150	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

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