LNP™ THERMOCOMP™ COMPOUND LF005

LF-1005
REGION ASIA

DESCRIPTION

LNP* THERMOCOMP* LF005 is a compound based on Polyetheretherketone resin containing 25% Glass Fiber.

TYPICAL PROPERTY VALUES

Revision 20181219

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	156	MPa	ASTM D 638
Tensile Stress, break	156	MPa	ASTM D 638
Tensile Strain, yield	2.7	%	ASTM D 638
Tensile Strain, break	2.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	11720	MPa	ASTM D 638
Flexural Stress	248	MPa	ASTM D 790
Flexural Modulus	8960	MPa	ASTM D 790
Tensile Stress, yield	158	MPa	ISO 527
Tensile Stress, break	158	MPa	ISO 527
Tensile Strain, yield	2.6	%	ISO 527
Tensile Strain, break	2.7	%	ISO 527
Tensile Modulus, 1 mm/min	11400	MPa	ISO 527
Flexural Stress	243	MPa	ISO 178
Flexural Modulus	8600	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	934	J/m	ASTM D 4812
Izod Impact, notched, 23°C	90	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	14	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	60	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL			
CTE, -40°C to 40°C, flow	5.4E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.8E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	5.17E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.94E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	239	°C	ISO 75/Af
PHYSICAL			
Density	1.48	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.5 – 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1 – 1.2	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.64	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.1	%	ISO 294

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.48	g/cm³	ISO 1183
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.1	%	
Melt Temperature	380 – 390	°C	
Front - Zone 3 Temperature	380 – 395	°C	
Middle - Zone 2 Temperature	365 – 375	°C	
Rear - Zone 1 Temperature	350 – 360	°C	
Mold Temperature	140 – 165	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

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