LNP™ THERMOCOMP™ COMPOUND RC006

RC-1006
REGION ASIA

DESCRIPTION

LNP THERMOCOMP RC006 is a compound based on Nylon 66 resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20181227

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	266	MPa	ASTM D 638
Tensile Strain, break	1.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	27780	MPa	ASTM D 638
Flexural Stress	406	MPa	ASTM D 790
Flexural modulus	18750	MPa	ASTM D 790
Tensile Stress, break	271	MPa	ISO 527
Tensile Strain, break	1.9	%	ISO 527
Tensile Modulus, 1 mm/min	22300	MPa	ISO 527
Flexural Stress	412	MPa	ISO 178
Flexural Modulus	21020	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1014	J/m	ASTM D 4812
Izod Impact, notched, 23°C	96	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	15	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	67	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	11	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	261	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.08E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.86E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.15E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.86E-05	1/°C	ISO 11359-2
PHYSICAL			
Density	1.28	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.6	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.08	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.56	%	ISO 294
Wear Factor Washer	20	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.46	-	ASTM D 3702 Modified: Manual
Static COF	0.36	-	ASTM D 3702 Modified: Manual

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.27	g/cm³	ISO 1183

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