LNP™ THERMOCOMP™ COMPOUND LC006EXQ

LC006EXQ

DESCRIPTION

LNP THERMOCOMP LC006EXQ is a compound based on Polyetheretherketone containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive, Easy Molding.

TYPICAL PROPERTY VALUES

Revision 20191213

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	314	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.7	%	ASTM D 638
Tensile Modulus, 5 mm/min	31700	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	477	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	27100	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	319	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.5	%	ISO 527
Tensile Modulus, 1 mm/min	35320	MPa	ISO 527
Flexural Stress	457	MPa	ISO 178
Flexural Modulus, 2 mm/min	27230	MPa	ISO 178
Shear Modulus	4756	MPa	ASTM D732
Shear Strength	119	MPa	ASTM D732
IMPACT			
Izod Impact, unnotched, 23°C	936	J/m	ASTM D 4812
Izod Impact, notched, 23°C	75	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	6	J	ASTM D 3763
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	332	°C	ASTM D 648
CTE, -40°C to 150°C, flow	5.E-06	1/°C	ASTM E 831
CTE, -40°C to 150°C, xflow	3.E-05	1/°C	ASTM E 831
PHYSICAL			
Specific Gravity	1.4	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.05	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.15 – 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7 – 1.4	%	ASTM D 955
Poisson's Ratio	0.44	-	ASTM E 132
ELECTRICAL			
Surface Resistivity	1.E+03 – 1.E+04	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	150	°C	
Drying Time	4 – 6	hrs	
Front - Zone 3 Temperature	380 – 400	°C	
Middle - Zone 2 Temperature	380 – 400	°C	
Rear - Zone 1 Temperature	370 – 380	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Temperature	175 – 190	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

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