LNP™ THERMOCOMP™ COMPOUND LC00APXQ

LC00APXQ

DESCRIPTION

LNP THERMOCOMP LC00APXQ is a compound based on Polyetheretherketone resin containing 50% Carbon Fiber. Added features of this material include: Exceptional Processing, Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20191218

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	328	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.2	%	ASTM D 638
Tensile Modulus, 5 mm/min	49800	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	505	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	40500	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	320	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.1	%	ISO 527
Tensile Modulus, 1 mm/min	47400	MPa	ISO 527
Flexural Stress	473	MPa	ISO 178
Flexural Modulus, 2 mm/min	40730	MPa	ISO 178
Shear Modulus	5187	MPa	ASTM D732
Shear Strength	114	MPa	ASTM D732
IMPACT			
Izod Impact, unnotched, 23°C	768	J/m	ASTM D 4812
Izod Impact, notched, 23°C	77	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	7	J	ASTM D 3763
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	335	°C	ASTM D 648
CTE, -40°C to 150°C, flow	2.E-06	1/°C	ASTM E 831
CTE, -40°C to 150°C, xflow	2.E-05	1/°C	ASTM E 831
PHYSICAL			
Specific Gravity	1.48	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.03	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.13 – 0.25	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.6 – 1.3	%	ASTM D 955
Poisson's Ratio	0.45	-	ASTM E 132
ELECTRICAL			
Surface Resistivity	1.E+02 – 1.E+03	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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