LNP™ STAT-KON™ COMPOUND LX04420C

PDX-L-04420 CCS

DESCRIPTION

LNP* STAT-KON* LX04420C is a compound based on Polyetheretherketone resin containing Proprietary Filler(s). Added features of this material include: Electrically Conductive, Clean Compounding System.

TYPICAL PROPERTY VALUES

Revision 20191219

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	149	MPa	ASTM D 638
Tensile Stress, break	149	MPa	ASTM D 638
Tensile Strain, yield	2.3	%	ASTM D 638
Tensile Strain, break	2.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	11990	MPa	ASTM D 638
Flexural Stress	241	MPa	ASTM D 790
Flexural Modulus	10790	MPa	ASTM D 790
Tensile Stress, yield	149	MPa	ISO 527
Tensile Stress, break	149	MPa	ISO 527
Tensile Strain, yield	2.1	%	ISO 527
Tensile Strain, break	2.1	%	ISO 527
Tensile Modulus, 1 mm/min	11500	MPa	ISO 527
Flexural Stress	241	MPa	ISO 178
Flexural Modulus	10270	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	576	J/m	ASTM D 4812
Izod Impact, notched, 23°C	48	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	2	J	ASTM D 3763
Multiaxial Impact	2	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	212	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	13	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	300	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.96E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.62E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.12E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.63E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	246	°C	ISO 75/Af
PHYSICAL			
Density	1.36	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.34	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.62	%	ISO 294

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.36	g/cm³	ISO 1183
ELECTRICAL			
Volume Resistivity	1000000 – 100000000	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+06 – 1.E+08	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	
Mold Temperature	175 – 190	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

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