LNP™ STAT-KON™ COMPOUND 9X08403C

9X08403C

DESCRIPTION

LNP STAT-KON 9X08403C is a compound based on Liquid Crystal Polymer (LCP) resin containing Carbon Fiber. Added features of this material are: Clean Compounding System, High Temperature, Flame Retardant, Electrically Conductive, Good barrier against water and oxygen.

TYPICAL PROPERTY VALUES

Revision 20191212

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	153	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.7	%	ASTM D 638
Tensile Modulus, 5 mm/min	14800	MPa	ASTM D 638
Flexural Stress	53	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	14400	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	826	J/m	ASTM D 4812
Izod Impact, notched, 23°C	87	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	280	°C	ASTM D 648
PHYSICAL			
Specific Gravity	1.46	-	ASTM D 792
Density	1.46	g/cm³	ASTM D 792
Mold Shrinkage, flow	0.2	%	SABIC method
Mold Shrinkage, xflow	0.52	%	SABIC method
ELECTRICAL			
Volume Resistivity	100000 – 1000000000	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+05 – 1.E+09	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	1 – 3	hrs	
Maximum Moisture Content	0.01	%	
Melt Temperature	330 – 360	°C	
Nozzle Temperature	330 – 360	°C	
Front - Zone 3 Temperature	330 – 360	°C	
Middle - Zone 2 Temperature	330 – 360	°C	
Rear - Zone 1 Temperature	325 – 360	°C	
Mold Temperature	65 – 110	°C	

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