LNP™ STAT-KON™ COMPOUND DX09303C

DESCRIPTION

LNP STAT-KON DX09303C is carbon fiber filled polycarbonate composite with high modulus, good flow ability, and high level of cleanliness for the most demanding application. A unique feature of this material is its low C18-C40 hydrocarbons. This compound is manufactured using LNP CCS Technology.

TYPICAL PROPERTY VALUES

Revision 20191216

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	161	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2	%	ASTM D 638
Tensile Modulus, 5 mm/min	20130	MPa	ASTM D 638
Flexural Stress	246	MPa	ASTM D 790
Flexural Modulus	18000	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	601	J/m	ASTM D 4812
Izod Impact, notched, 23°C	82	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	125	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.4E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.98E-05	1/°C	ASTM E 831
Relative Temp Index, Elec [1]	80	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	80	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	80	°C	UL 746B
PHYSICAL			
Specific Gravity	1.35	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.05 – 0.15	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm	0.1 – 0.25	%	SABIC method
Melt Volume Rate, MVR at 300°C/5.0 kg	47	cm³/10 min	ISO 1133
ELECTRICAL			
Surface Resistivity	5.E+03 – 5.E+05	Ohm	ASTM D 257
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E207780-101095846	-	-
UL Recognized, 94HB Flame Class Rating	≥1	mm	UL 94
INJECTION MOLDING			
Drying Temperature	90 – 110	°C	
Drying Time	3 – 5	hrs	
Melt Temperature	280 – 320	°C	
Nozzle Temperature	280 – 320	°C	
Front - Zone 3 Temperature	280 – 320	°C	
Middle - Zone 2 Temperature	280 – 320	°C	
Rear - Zone 1 Temperature	250 – 280	°C	
Mold Temperature	90 – 120	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Back Pressure	1 – 5	MPa	
Screw Speed	30 – 100	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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