LNP™ STAT-KON™ Compound 9X08403C

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound 9X08403C
Product reorder name: 9X08403C

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 PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	1560	kgf/cm²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.7	%	ASTM D 638
Tensile Modulus, 5 mm/min	150900	kgf/cm²	ASTM D 638
Flexural Stress	540	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	146800	kgf/cm²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	84	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	8	cm-kgf/cm	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 (5)	0.2	%	SABIC Method
Mold Shrinkage, xflow (5)	0.52	%	SABIC Method
ELECTRICAL			
Volume Resistivity	1.E+05 - 1.E+09	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+05 - 1.E+09	Ohm	ASTM D 257

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
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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