

LNP* Stat-kon* Compound EX08318C

Asia Pacific: COMMERCIAL

Also known as: StatKon
Product Reorder Name: EX08318C

LNP* Stat-Kon* EX08318C is a polyetherimide compound reinforced with carbon fiber for good stiffness, dimension stability and has extremely high level of cleanliness for the most demanding application. A unique feature of this material is its low non-volatile residue (NVR). This compound is manufactured using LNP CCS Technology.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, brk, Type I, 5 mm/min	210	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	22680	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	268	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	18200	MPa	ASTM D 790
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	348	J/m	ASTM D 4812
Izod Impact, notched, 23°C	46	J/m	ASTM D 256
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 6.4 mm, unannealed	202	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.9E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.4E-05	1/°C	ASTM E 831
PHYSICAL	Value	Unit	Standard
Density	1.388	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.25 - 0.31	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.38 - 0.45	%	ASTM D 955
ELECTRICAL	Value	Unit	Standard
Volume Resistivity	5.E+03 - 5.E+06	Ohm-cm	ASTM D 257
Surface Resistivity	5.E+03 - 5.E+05	Ohm	ASTM D 257
Static Decay, 5000V to <50V	0.1	< seconds	FTMS101B

Source GMD, last updated:2009/02/11

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	150	°C
Drying Time	4 - 6	hrs
Drying Time (Cumulative)	24	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	350 - 380	°C
Nozzle Temperature	345 - 380	°C
Front - Zone 3 Temperature	345 - 380	°C
Middle - Zone 2 Temperature	340 - 380	°C
Rear - Zone 1 Temperature	330 - 380	°C

Mold Temperature	135 - 165	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	40 - 70	rpm
Shot to Cylinder Size	40 - 60	%
Vent Depth	0.025 - 0.076	mm

Source GMD, last updated:2009/02/11

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(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.

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