



## LNP™ STAT-KON™ Compound EX99689C

### Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound PDX-E-99689 CCS

Product reorder name: EX99689C

LNP STAT-KON EX99689C is a compound based on Polyetherimide resin containing Proprietary Filler(s). Added features of this material include: Clean Compounding System, Electrically Conductive.

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, break	1640	kgf/cm <sup>2</sup>	ASTM D 638
Tensile Strain, break	1.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	118800	kgf/cm <sup>2</sup>	ASTM D 638
Flexural Stress	2460	kgf/cm <sup>2</sup>	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	81500	kgf/cm <sup>2</sup>	ASTM D 790
Tensile Stress, break	137	MPa	ISO 527
Tensile Strain, break	1.2	%	ISO 527
Tensile Modulus, 1 mm/min	12630	MPa	ISO 527
Flexural Stress	216	MPa	ISO 178
Flexural Modulus, 2 mm/min	7700	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	45	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	116	cm-kgf	ASTM D 3763
Multiaxial Impact	24	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	28	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
HDT, 1.82 MPa, 3.2mm, unannealed	205	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.33E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.29E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	3.33E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	3.3E-05	1/°C	ISO 11359-2

(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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TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
<b>THERMAL</b>			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	207	°C	ISO 75/Af
<b>PHYSICAL</b>			
Density	1.31	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.3	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.17	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.36	%	ISO 294
Moisture Absorption (23°C / 50% RH)	0.35	%	ISO 62
<b>ELECTRICAL</b>			
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257
<b>FLAME CHARACTERISTICS</b>			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	0.35	mm	UL 94 by SABIC-IP

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
<b>Injection Molding</b>		
Drying Temperature	120 - 150	°C
Drying Time	4 - 6	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	360 - 365	°C
Front - Zone 3 Temperature	365 - 375	°C
Middle - Zone 2 Temperature	355 - 365	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	120 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm

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