



LNP™ STAT-KON™ Compound DEI13F

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound DCL-4413 SM

Product reorder name: DEI13F

LNP STAT-KON DEI13F is a compound based on Polycarbonate resin containing 15% Carbon Fiber, 2% Silicone. Added features of this material include: Electrically Conductive, Superior Molding, Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1180	kgf/cm ²	ASTM D 638
Tensile Strain, break	1.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	106000	kgf/cm ²	ASTM D 638
Flexural Stress	1750	kgf/cm ²	ASTM D 790
Flexural Modulus	76400	kgf/cm ²	ASTM D 790
Tensile Stress, break	116	MPa	ISO 527
Tensile Strain, break	1.8	%	ISO 527
Tensile Modulus, 1 mm/min	10100	MPa	ISO 527
Flexural Stress	167	MPa	ISO 178
Flexural Modulus	9790	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	28	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	254	cm-kgf	ASTM D 3763
Multiaxial Impact	1050	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	33	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	142	°C	ASTM D 648
CTE, -40°C to 40°C, flow	9.E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.2E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.01E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.35E-05	1/°C	ISO 11359-2



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	142	°C	ISO 75/Af
PHYSICAL			
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 0.75-2.3 mm (5)	0 - 0	%	SABIC Method
Mold Shrinkage, flow (5)	0.1 - 0.3	%	SABIC Method
Mold Shrinkage, xflow, 0.75-2.3 mm (5)	0 - 0	%	SABIC Method
Mold Shrinkage, xflow (5)	0.2 - 0.4	%	SABIC Method
Wear Factor Washer	343	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.24	-	ASTM D 3702 Modified
Static COF	0.24	-	ASTM D 3702 Modified
Density	1.24	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.2	%	ISO 62
ELECTRICAL			
Volume Resistivity	1.E+02	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	305 - 325	°C
Front - Zone 3 Temperature	320 - 330	°C
Middle - Zone 2 Temperature	310 - 320	°C
Rear - Zone 1 Temperature	295 - 305	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm