+135-3858-6433 (GuangDong)
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LNP™ STAT-KON™ Compound DE0069F

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound DC-1006 FR SM
Product reorder name: DE0069F

LNP STAT-KON DE0069F is a compound based on Polycarbonate resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive, Flame Retardant, Superior Molding.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	1480	kgf/cm²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	1480	kgf/cm²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.6	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	176600	kgf/cm²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	2140	kgf/cm²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2160	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	149200	kgf/cm²	ASTM D 790
Tensile Stress, yield, 5 mm/min	1	MPa	ISO 527
Tensile Stress, break, 5 mm/min	137	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.2	%	ISO 527
Tensile Strain, break, 5 mm/min	1.2	%	ISO 527
Tensile Modulus, 1 mm/min	16670	MPa	ISO 527
Flexural Modulus, 2 mm/min	14560	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	47	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Multiaxial Impact	22	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	101	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	24	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	146	°C	ASTM D 648

(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.

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	142	°C	ASTM D 648
CTE, -30°C to 30°C, flow	7.E-06	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	7.E-06	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	148	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	143	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.36	-	ASTM D 792
Density	1.36	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.07	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.01 - 0.03	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.1 - 0.4	%	ASTM D 955
Density	1.36	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.13	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+00 - 4.E+00	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

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