



LNP™ STAT-KON™ Compound OE006A

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound OC-1006

Product reorder name: OE006A

LNP STAT-KON™ OE006A is a compound based on PPS - Branched resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	2140	kgf/cm ²	ASTM D 638
Tensile Strain, break	1.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	333900	kgf/cm ²	ASTM D 638
Flexural Stress	3100	kgf/cm ²	ASTM D 790
Flexural Modulus	239700	kgf/cm ²	ASTM D 790
Tensile Stress, break	204	MPa	ISO 527
Tensile Strain, break	1	%	ISO 527
Tensile Modulus, 1 mm/min	25450	MPa	ISO 527
Flexural Stress	311	MPa	ISO 178
Flexural Modulus	24720	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	44	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	33	cm-kgf	ASTM D 3763
Multiaxial Impact	17	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	28	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
CTE, -40°C to 40°C, flow	7.2E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.96E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	8.7E-06	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.08E-05	1/°C	ISO 11359-2
PHYSICAL			
Density	1.44	g/cm ³	ASTM D 792



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.08	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.4	%	ISO 294
Wear Factor Washer	857	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	1.6	-	ASTM D 3702 Modified
Static COF	1.38	-	ASTM D 3702 Modified
Density	1.44	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.03	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	1	mm	UL 94 by SABIC-IP



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Melt Temperature	315 - 320	°C
Front - Zone 3 Temperature	330 - 345	°C
Middle - Zone 2 Temperature	320 - 330	°C
Rear - Zone 1 Temperature	305 - 315	°C
Mold Temperature	140 - 165	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm