

## LNP\* Stat-kon\* Compound OE006A

Americas: COMMERCIAL

Also known as: OC-1006

Product Reorder Name: OE006A

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

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
	Value	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, break	210	MPa	ASTM D 638
Tensile Strain, break	1.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	32750	MPa	ASTM D 638
Flexural Stress	304	MPa	ASTM D 790
Flexural Modulus	23510	MPa	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
<b>IMPACT</b>			
	Value	Unit	Standard
Izod Impact, unnotched, 23°C	437	J/m	ASTM D 4812
Izod Impact, notched, 23°C	49	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	3	J	ASTM D 3763
Multiaxial Impact	1	J	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>			
	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	266	°C	ASTM D 648
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
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	268	°C	ISO 75/Af
<b>PHYSICAL</b>			
	Value	Unit	Standard
Density	1.44	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.08	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.4	%	ISO 294
Wear Factor Washer	857	10 <sup>-10</sup> in <sup>5</sup> -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 <sup>3</sup>	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.03	%	ISO 62

ELECTRICAL	Value	Unit	Standard
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257
FLAME CHARACTERISTICS	Value	Unit	Standard
UL Compliant, 94V-0 Flame Class Rating (3)(4)	1	mm	UL 94 by GE

Source GMD, last updated:10/01/2004

## Processing

Parameter	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

Source GMD, last updated:10/01/2004

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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