



LNP™ STAT-KON™ Compound JE006E

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound JC-1006 EM

Product reorder name: JE006E

LNP™ STAT-KON JE006E is a compound based on Polyethersulfone resin containing 30% Carbon Fiber. Added features of this grade include: Easy Molding, Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	2290	kgf/cm²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.4	%	ASTM D 638
Tensile Modulus, 5 mm/min	262800	kgf/cm²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2700	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	158000	kgf/cm²	ASTM D 790
Tensile Stress, break, 5 mm/min	215	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.2	%	ISO 527
Tensile Modulus, 1 mm/min	25220	MPa	ISO 527
Flexural Stress	309	MPa	ISO 178
Flexural Modulus, 2 mm/min	20980	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	60	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
Multiaxial Impact	33	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	118	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	36	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	223	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	218	°C	ASTM D 648
CTE, -30°C to 30°C, flow	9.E-06	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	3.2E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	225	°C	ISO 75/Bf

(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.

Source GMD, last updated:
PLEASE CONTACT YOUR LOCAL SALES OFFICE FOR AVAILABILITY IN YOUR AREA.

(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.

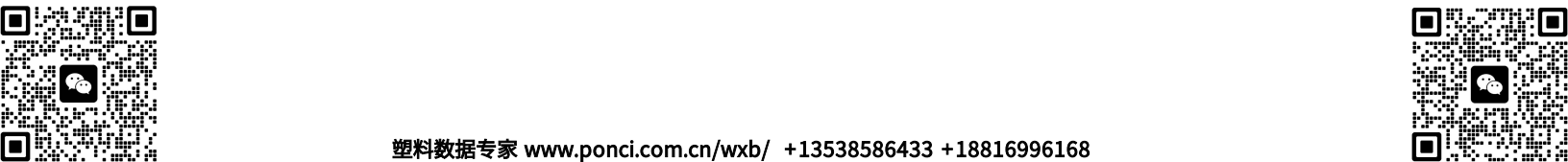
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new 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/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	219	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.47	-	ASTM D 792
Density	1.47	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.29	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.17	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.55	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.48	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+02 - 1.E+05	Ohm	ASTM D 257

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	355 - 370	°C
Front - Zone 3 Temperature	370 - 380	°C
Middle - Zone 2 Temperature	360 - 370	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	140 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm

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