



LNP* Stat-kon* Compound DE0021E

Asia Pacific: COMMERCIAL

Also known as: LNP* Stat-kon* Compound DC-1002 EM FR ECO

Product reorder name: DE0021E

LNP STAT-KON* DE0021E is a compound based on Polycarbonate resin containing Carbon Fiber, Flame Retardant. Added features of this material include: Easy Molding.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, break	1160	kgf/cm ²	ASTM D 638
Tensile Strain, break	1.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	93400	kgf/cm ²	ASTM D 638
Flexural Stress	1730	kgf/cm ²	ASTM D 790
Flexural Modulus	83800	kgf/cm ²	ASTM D 790
Tensile Stress, break	112	MPa	ISO 527
Tensile Strain, break	2.1	%	ISO 527
Tensile Modulus, 1 mm/min	9360	MPa	ISO 527
Flexural Stress	169	MPa	ISO 178
Flexural Modulus	8500	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	35	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	95	cm-kgf	ASTM D 3763
Multiaxial Impact	77	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	31	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	93	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.67E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.08E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.67E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.09E-05	1/°C	ISO 11359-2



LNP* Stat-kon* Compound DE0021E

Asia Pacific: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	96	°C	ISO 75/Af
PHYSICAL			
Density	1.27	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.06 - 0.32	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.29 - 0.43	%	ISO 294
Density	1.27	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.1	%	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)	1.5	mm	UL 94 by GE



LNP* Stat-kon* Compound DE0021E

Asia Pacific: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
Injection Molding		
Drying Temperature	80	°C
Drying Time	4 - 6	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	255 - 290	°C
Front - Zone 3 Temperature	260 - 270	°C
Middle - Zone 2 Temperature	255 - 265	°C
Rear - Zone 1 Temperature	250 - 260	°C
Mold Temperature	40 - 65	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm