



LNP™ STAT-KON™ Compound EEF42

Americas: COMMERCIAL

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

Product reorder name: EEF42

LNP STAT-KON™ EEF42 is a compound based on Polyetherimide resin containing 10% Carbon Fiber, 20% Glass Fiber. Added features of this material include: Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	1940	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	1860	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.7	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.7	%	ASTM D 638
Tensile Modulus, 5 mm/min	151100	kgf/cm ²	ASTM D 638
Flexural Stress	2520	kgf/cm ²	ASTM D 790
Flexural Stress, yld, 1.3 mm/min, 50 mm span	2690	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2690	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	140700	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	179	MPa	ISO 527
Tensile Stress, break, 5 mm/min	179	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.5	%	ISO 527
Tensile Strain, break, 5 mm/min	1.5	%	ISO 527
Tensile Modulus, 1 mm/min	13990	MPa	ISO 527
Flexural Modulus, 2 mm/min	13330	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	134	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	6	cm-kgf/cm	ASTM D 256
Multiaxial Impact	30	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	112	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	28	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A



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THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	213	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	209	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.8E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.3E-05	1/°C	ASTM E 831
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	214	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	210	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.48	-	ASTM D 792
Density	1.47	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.14	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.3 - 0.5	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.22	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+03 - 1.E+06	Ohm	ASTM D 257



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4 - 6	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	360 - 365	°C
Front - Zone 3 Temperature	365 - 375	°C
Middle - Zone 2 Temperature	355 - 365	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	120 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm