



LNP™ STAT-KON™ Compound PE002

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound PC-1002

Product reorder name: PE002

LNP STAT-KON PE002 is a compound based on Nylon 6 resin containing 10% Carbon Fiber. Added features of this material include: Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1160	kgf/cm ²	ASTM D 638
Tensile Strain, break	6.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	119500	kgf/cm ²	ASTM D 638
Flexural Stress	1750	kgf/cm ²	ASTM D 790
Flexural Modulus	56200	kgf/cm ²	ASTM D 790
Tensile Stress, break	124	MPa	ISO 527
Tensile Strain, break	8	%	ISO 527
Tensile Modulus, 1 mm/min	8670	MPa	ISO 527
Flexural Stress	185	MPa	ISO 178
Flexural Modulus	7400	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	12	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	6	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	8	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	219	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	197	°C	ASTM D 648
CTE, -40°C to 40°C, flow	8.1E-05	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.E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	3.9E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	215	°C	ISO 75/Bf



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THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	197	°C	ISO 75/Af
PHYSICAL			
Density	1.18	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.6 - 0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.41	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.74	%	ISO 294
Density	1.18	g/cm ³	ISO 1183



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	265 - 275	°C
Front - Zone 3 Temperature	275 - 290	°C
Middle - Zone 2 Temperature	265 - 275	°C
Rear - Zone 1 Temperature	250 - 260	°C
Mold Temperature	80 - 95	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	30 - 60	rpm