



LNP™ STAT-KON™ Compound ZE004

Asia Pacific: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound ZC-1004

Product reorder name: ZE004

LNP STAT-KON ZE004 is a compound based on MODIFIED POYPHENYLENE resin containing Carbon Fiber.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	820	kgf/cm ²	ASTM D 638
Tensile Stress, break	1060	kgf/cm ²	ASTM D 638
Tensile Strain, break	0.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	253100	kgf/cm ²	ASTM D 638
Flexural Stress	1820	kgf/cm ²	ASTM D 790
Flexural Modulus	246000	kgf/cm ²	ASTM D 790
Tensile Stress, yield	54	MPa	ISO 527
Tensile Stress, break	103	MPa	ISO 527
Tensile Strain, break	0.9	%	ISO 527
Tensile Modulus, 1 mm/min	14720	MPa	ISO 527
Flexural Stress	151	MPa	ISO 178
Flexural Modulus	12700	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	30	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	17	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	139	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	137	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.86E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.6E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.8E-05	1/°C	ISO 11359-2



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THERMAL			
CTE, -40°C to 40°C, xflow	3.7E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	141	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	135	°C	ISO 75/Af
PHYSICAL			
Density	1.17	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.4 - 0.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.53	%	ISO 294
Density	1.17	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Melt Temperature	300 - 305	°C
Front - Zone 3 Temperature	300 - 310	°C
Middle - Zone 2 Temperature	290 - 300	°C
Rear - Zone 1 Temperature	275 - 290	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm