



LNP™ STAT-KON™ Compound RFD04

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound RF-20

Product reorder name: RFD04

LNP STAT-KON™ RFD04 is a compound based on Nylon 66 resin containing 20% Glass Fiber. Added features of this material include: Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	1260	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	93800	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1930	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	87000	kgf/cm ²	ASTM D 790
Tensile Stress, break	117	MPa	ISO 527
Tensile Stress, break, 5 mm/min	119	MPa	ISO 527
Tensile Strain, break	1.3	%	ISO 527
Tensile Strain, break, 5 mm/min	1.6	%	ISO 527
Tensile Modulus, 1 mm/min	8780	MPa	ISO 527
Flexural Stress	185	MPa	ISO 178
Flexural Modulus	8600	MPa	ISO 178
Flexural Modulus, 2 mm/min	8170	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
Multiaxial Impact	14	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	36	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*3 +23°C	20	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	259	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	248	°C	ASTM D 648



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THERMAL			
CTE, -30°C to 30°C, flow	3.4E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.1E-05	1/°C	ASTM D 696
CTE, -40°C to 40°C, flow	3.22E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.46E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	257	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	242	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.4	-	ASTM D 792
Density	1.39	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.5	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.5 - 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1 - 3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.61	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.35	%	ISO 294
Density	1.39	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.75	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+03 - 1.E+07	Ohm	ASTM D 257



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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	280 - 305	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	95 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm