



LNP™ STAT-KON™ Compound RFD02

Americas: COMMERCIAL

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

Product reorder name: RFD02

LNP STAT-KON RFD02 is a compound based on Nylon 66 resin containing 10% Glass Fiber. Added features of this material include: Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	790	kgf/cm ²	ASTM D 638
Tensile Strain, break	5.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	84300	kgf/cm ²	ASTM D 638
Flexural Stress	1330	kgf/cm ²	ASTM D 790
Flexural Modulus	56200	kgf/cm ²	ASTM D 790
Tensile Stress, break	74	MPa	ISO 527
Tensile Strain, break	5.1	%	ISO 527
Tensile Modulus, 1 mm/min	7400	MPa	ISO 527
Flexural Stress	139	MPa	ISO 178
Flexural Modulus	6300	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	21	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	14	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	252	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	236	°C	ASTM D 648
CTE, -40°C to 40°C, flow	6.84E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.68E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	6.9E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.8E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	256	°C	ISO 75/Bf



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THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	239	°C	ISO 75/Af
PHYSICAL			
Density	1.3	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.5	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1 - 1.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.4 - 1.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.1	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.5	%	ISO 294
Density	1.3	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+02 - 1.E+05	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