



LNP™ STAT-KON™ Compound MFD02

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound MF-10
Product reorder name: MFD02

LNP STAT-KON MFD02 is a compound based on Polypropylene resin containing 10% Glass Fiber. Added features of this material include: Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	280	kgf/cm ²	ASTM D 638
Tensile Stress, break	210	kgf/cm ²	ASTM D 638
Tensile Strain, yield	3.2	%	ASTM D 638
Tensile Strain, break	6.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	28100	kgf/cm ²	ASTM D 638
Flexural Modulus	21000	kgf/cm ²	ASTM D 790
Tensile Stress, yield	28	MPa	ISO 527
Tensile Stress, break	23	MPa	ISO 527
Tensile Strain, yield	2.9	%	ISO 527
Tensile Strain, break	4.1	%	ISO 527
Tensile Modulus, 1 mm/min	2430	MPa	ISO 527
Flexural Stress	43	MPa	ISO 178
Flexural Modulus	2200	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	38	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	13	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	170	cm-kgf	ASTM D 3763
Multiaxial Impact	121	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	27	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	15	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	133	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	85	°C	ASTM D 648





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THERMAL			
CTE, -40°C to 40°C, flow	1.03E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.48E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.03E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.4E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	127	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	81	°C	ISO 75/Af
PHYSICAL			
Density	1.05	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	1.1 - 1.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.1 - 1.3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.2	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.2	%	ISO 294
Density	1.05	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+01 - 1.E+03	Ohm	ASTM D 257





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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	225 - 250	°C
Front - Zone 3 Temperature	240 - 250	°C
Middle - Zone 2 Temperature	215 - 225	°C
Rear - Zone 1 Temperature	195 - 205	°C
Mold Temperature	30 - 50	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

