



LNP™ STAT-KON™ Compound FD000

Americas: COMMERCIAL

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

Product reorder name: FD000

LNP STAT-KON FD000 is an unfilled Polyethylene. Added feature of this grade is: Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	330	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	320	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	6.1	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	9	%	ASTM D 638
Tensile Modulus, 50 mm/min	22600	kgf/cm ²	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	13200	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	32	MPa	ISO 527
Tensile Stress, break, 5 mm/min	31	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	5.5	%	ISO 527
Tensile Strain, break, 5 mm/min	6.5	%	ISO 527
Tensile Modulus, 1 mm/min	1400	MPa	ISO 527
Flexural Stress	30	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	90	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	1	cm-kgf/cm	ASTM D 256
Multiaxial Impact	142	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	136	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	53	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	90	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	51	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.14E+02	1/°C	ASTM D 696



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -30°C to 30°C, xflow	1.11E+02	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	84	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	51	°C	ISO 75/Af
PHYSICAL			
Density	1.05	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	2 - 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1 - 2	%	ASTM D 955
Density	1.04	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.02	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+00 - 3.E+00	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	230	°C
Front - Zone 3 Temperature	220 - 230	°C
Middle - Zone 2 Temperature	210 - 220	°C
Rear - Zone 1 Temperature	195 - 205	°C
Mold Temperature	40 - 55	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm