



LNP* Stat-kon* Compound MD000IU

Asia Pacific: COMMERCIAL

Also known as: LNP* Stat-kon* Compound M-1 HI UV

Product reorder name: MD000IU

LNP* Stat-kon* MD000IU is a compound based on Polypropylene resin containing Carbon Powder. Added features of this material include: Electrically Conductive, High Impact, UV Stabilized.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yield	210	kgf/cm ²	ASTM D 638
Tensile Stress, break	160	kgf/cm ²	ASTM D 638
Tensile Strain, yield	9	%	ASTM D 638
Tensile Strain, break	133.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	4900	kgf/cm ²	ASTM D 638
Flexural Stress	210	kgf/cm ²	ASTM D 790
Flexural Modulus	11600	kgf/cm ²	ASTM D 790
Tensile Stress, yield	18	MPa	ISO 527
Tensile Stress, break	17	MPa	ISO 527
Tensile Modulus, 1 mm/min	1100	MPa	ISO 527
Flexural Stress	27	MPa	ISO 178
Flexural Modulus	1200	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	157	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	84	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	244	cm-kgf	ASTM D 3763
Multiaxial Impact	316	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	112	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	65	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	81	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	52	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.01E-04	1/°C	ASTM E 831

1) Typical values only. Variations within normal tolerances are possible for various colours. All values are measured at least after 48 hours storage at 23°C/50% relative humidity.
All properties, except the melt volume rate are measured on injection moulded samples.
All samples are prepared according to ISO 294.

2) Only typical data for material selection purpose. Not to be used for part or tool design.
3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
4) Own measurement according to UL.



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
THERMAL			
CTE, -40°C to 40°C, xflow	1.19E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.01E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.19E-04	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	56	°C	ISO 75/Af
PHYSICAL			
Density	0.98	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs		%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.6 - 1.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.6 - 1.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.6 - 1.8	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.6 - 1.8	%	ISO 294
Density	0.97	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+01 - 1.E+06	Ohm	ASTM D 257

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