

LNPTM STAT-KONTM COMPOUND MD000IS

M-1 HI BK8-114

DESCRIPTION

LNP STAT-KON MD000IS compound is based on Polypropylene (PP) resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive, High Impact, Heat Stabilized.

GENERAL INFORMATION

Features	Electrically Conductive, Heat Stabilized, Impact resistant, No PFAS intentionally added
Fillers	Carbon Powder
Polymer Types	Polypropylene, Unspecified (PP, Unspecified)
Processing Techniques	Injection Molding

INDUSTRY

Electrical and Electronics
Industrial

SUB INDUSTRY

Electronic Components
Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yield	21	MPa	ASTM D638
Tensile Stress, break	17	MPa	ASTM D638
Tensile Strain, yield	9	%	ASTM D638
Tensile Strain, break	133.8	%	ASTM D638
Tensile Modulus, 50 mm/min	480	MPa	ASTM D638
Flexural Stress	27	MPa	ASTM D790
Flexural Modulus	1130	MPa	ASTM D790
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 ⁽¹⁾			
Izod Impact, unnotched, 23°C	1553	J/m	ASTM D4812
Izod Impact, notched, 23°C	833	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	24	J	ASTM D3763
Multiaxial Impact	31	J	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 ⁽¹⁾			
HDT, 0.45 MPa, 3.2 mm, unannealed	81	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	52	°C	ASTM D648

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CHEMISTRY THAT MATTERS™

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -40°C to 40°C, flow	1.01E-04	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	1.19E-04	1/°C	ASTM E831
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 ⁽¹⁾			
Density	0.98	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.03	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽²⁾	1.6 – 1.8	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	1.6 – 1.8	%	ASTM D955
Mold Shrinkage, flow, 24 hrs ⁽²⁾	1.6 – 1.8	%	ISO 294
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	1.6 – 1.8	%	ISO 294
Density	0.97	g/cm ³	ISO 1183
ELECTRICAL ⁽¹⁾			
Surface Resistivity ⁽³⁾	1.E+01 – 1.E+06	Ω	ASTM D257
Static Decay, 5000V to <50V	<0.01	Seconds	FTMS101B
INJECTION MOLDING ⁽⁴⁾			
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	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) Measurement meets requirements as specified in ASTM D4496.

(4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

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