

LNPTM STAT-KONTM COMPOUND RX08408

RX08408

DESCRIPTION

LNP STAT-KON RX08404 compound is based on Nylon 6/6 resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive, High Impact.

GENERAL INFORMATION

Features	Electrically Conductive, Impact resistant, No PFAS intentionally added
Fillers	Carbon Powder
Polymer Types	Polyamide 66 (Nylon 66)
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, brk, Type I, 5 mm/min	46	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	26	%	ASTM D638
Tensile Modulus, 50 mm/min	1960	MPa	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span	1760	MPa	ASTM D790
Tensile Stress, break, 5 mm/min	47	MPa	ISO 527
Tensile Strain, break, 5 mm/min	26	%	ISO 527
Tensile Modulus, 1 mm/min	1930	MPa	ISO 527
Flexural Stress	61	MPa	ISO 178
Flexural Modulus, 2 mm/min	1850	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, unnotched, 23°C	1720	J/m	ASTM D4812
Izod Impact, notched, 23°C	141	J/m	ASTM D256
Multiaxial Impact	25	J	ISO 6603
Instrumented Dart Impact Total Energy, 23°C	22	J	ASTM D3763
Izod Impact, unnotched 80°10°4 +23°C	196	kJ/m ²	ISO 180/1U
Izod Impact, notched 80°10°4 +23°C	12	kJ/m ²	ISO 180/1A
THERMAL ⁽¹⁾			
HDT, 0.45 MPa, 3.2 mm, unannealed	195	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	60	°C	ASTM D648
CTE, -30°C to 30°C, flow	1.1E-04	1/°C	ASTM D696
CTE, -30°C to 30°C, xflow	1.14E-04	1/°C	ASTM D696
HDT/Bf, 0.45 MPa Flatw 80°10°4 sp=64mm	165	°C	ISO 75/Bf

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	117	°C	ISO 75 /Af
PHYSICAL ⁽¹⁾			
Moisture Absorption, (23°C / 50% RH / 24 hrs)	0.6	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽²⁾	3 – 5	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	3 – 5	%	ASTM D955
Moisture Absorption (23°C / 50% RH)	0.87	%	ISO 62
ELECTRICAL ⁽¹⁾			
Volume Resistivity ⁽³⁾	1.E+03 – 1.E+06	Ω.cm	ASTM D257
Surface Resistivity ⁽³⁾	1.E+03 – 1.E+06	Ω	ASTM D257
INJECTION MOLDING ⁽⁴⁾			
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	

(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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