

LNPTM STAT-KONTM COMPOUND FX09905

FX09905

DESCRIPTION

LNP STAT-KON FX09905 compound is based on Polyethylene (PE) resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive.

GENERAL INFORMATION	
Features	Electrically Conductive, No PFAS intentionally added
Fillers	Carbon Powder
Polymer Types	Polyethylene, Unspecified (PE, Unspecified)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Electronic Components
Industrial	Material Handling

TYPICAL PROPERTY VALUES

PROPERTIES **TYPICAL VALUES** UNITS **TEST METHODS** MECHANICAL⁽¹⁾ Tensile Stress, yld, Type I, 5 mm/min 29 MPa ASTM D638 MPa 20 ASTM D638 Tensile Stress, brk, Type I, 5 mm/min Tensile Strain, yld, Type I, 5 mm/min 9.6 % ASTM D638 Tensile Strain, brk, Type I, 5 mm/min 24.2 % ASTM D638 ASTM D638 Tensile Modulus, 50 mm/min 1694 MPa ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 1400 MPa Tensile Stress, yield, 5 mm/min 27 MPa ISO 527 MPa ISO 527 Tensile Stress, break, 5 mm/min 23 Tensile Strain, yield, 5 mm/min 8.7 ISO 527 % Tensile Strain, break, 5 mm/min 17.8 % ISO 527 Tensile Modulus, 1 mm/min 1449 MPa ISO 527 Flexural Stress MPa ISO 178 31 Flexural Modulus, 2 mm/min 1445 MPa ISO 178 IMPACT (1) Izod Impact, notched, 23°C 85 J/m ASTM D256 14.9 Multiaxial Impact ISO 6603 Instrumented Dart Impact Total Energy, 23°C 5.7 T. ASTM D3763 Izod Impact, unnotched 80*10*4 +23°C ISO 180/1U 106 kJ/m² Izod Impact, notched 80*10*4 +23°C 4.8 kJ/m² ISO 180/1A THERMAL (1) 98 °C ASTM D648 HDT, 0.45 MPa, 3.2 mm, unannealed °C ASTM D648 HDT, 1.82 MPa, 3.2mm, unannealed 58

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CHEMISTRY THAT MATTERS

Revision 20231109



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -30°C to 30°C, flow	1.2E-05	1/°C	ASTM D696
CTE, -30°C to 30°C, xflow	1.3E-05	1/°C	ASTM D696
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	54	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Specific Gravity	1.02	-	ASTM D792
Density	1.02	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	.0079	%	ASTM D570
Moisture Absorption (23°C / 50% RH)	0.022	%	ISO 62
ELECTRICAL ⁽¹⁾			
Surface Resistivity ⁽²⁾	2 – 5	Ω	ASTM D257
INJECTION MOLDING (3)			
Drying Temperature	82	°C	
Drying Time	4	Hrs	
Melt Temperature	232	°C	
Front - Zone 3 Temperature	221 – 232	°C	
Middle - Zone 2 Temperature	210 – 221	°C	
Rear - Zone 1 Temperature	193 – 204	°C	
Mold Temperature	37 – 54	°C	
Back Pressure	0.17 – 0.34	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) Measurement meets requirements as specified in ASTM D4496.

(3) 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.

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