LNP™ STAT-KON™ COMPOUND FX09905

FX09905

DESCRIPTION

LNP™ STAT-KON™ FX09905 is a compound based on Polyethylene resin containing conductive carbon black for conductive / anti-static applications.

TYPICAL PROPERTY VALUES

Revision 20191212

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	29	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	20	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	9.6	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	24.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	1694	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	1400	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	27	MPa	ISO 527
Tensile Stress, break, 5 mm/min	23	MPa	ISO 527
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	31	MPa	ISO 178
Flexural Modulus, 2 mm/min	1445	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	85	J/m	ASTM D 256
Multiaxial Impact	14.9	J	ISO 6603
Instrumented Impact Total Energy, 23°C	5.7	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	106	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4.8	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	98	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	58	°C	ASTM D 648
CTE, -30°C to 30°C, flow	.000013	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	.000012	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	54	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.02	-	ASTM D 792
Density	1.02	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	.0079	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	4.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	2.1	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.022	%	ISO 62
ELECTRICAL			

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Surface Resistivity	2 – 5	Ohm	ASTM D 257
INJECTION MOLDING			
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	

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