LNP™ STAT-KON™ COMPOUND DX02437

DESCRIPTION

LNP Stat-Kon DX02437 is a compound based on Polycarbonate resin containing conductive carbon powder, with good impact-resistance, flow and ESD performance, suitable for semi-con industry.

TYPICAL PROPERTY VALUES

Revision 20191212

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	58	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	47	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	19.3	%	ASTM D 638
Tensile Modulus, 5 mm/min	2560	MPa	ASTM D 638
Tensile Stress, yield, 5 mm/min	58	MPa	ISO 527
Tensile Stress, break, 5 mm/min	47	MPa	ISO 527
Tensile Strain, break, 5 mm/min	16.5	%	ISO 527
Tensile Modulus, 1 mm/min	2550	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	92	MPa	ISO 178
Flexural Stress, break, 2 mm/min	90	MPa	ISO 178
Flexural Strain, break, 2 mm/min	7.8	%	ISO 178
Flexural Modulus, 2 mm/min	2550	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	2140	J/m	ASTM D 4812
Izod Impact, notched, 23°C	359	J/m	ASTM D 256
Izod Impact, notched, 0°C	294	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	27	J	ASTM D 3763
Multiaxial Impact	63	J	ISO 6603
Instrumented Impact Total Energy, 23°C	39	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	130	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	24	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 0°C	20	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	26	kJ/m²	ISO 179/1eA
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	95	kJ/m²	ISO 179/1eU
THERMAL			
Vicat Softening Temp, Rate A/50	144	°C	ASTM D 1525
HDT, 1.82 MPa, 3.2 mm	111	°C	ASTM D 648
Vicat Softening Temp, Rate A/50	144	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	126	°C	ISO 75/Af
PHYSICAL			
Density	1.236	g/cm³	ASTM D 792
Mold Shrinkage, flow, 1.5-3.2 mm	0.64	%	SABIC method
Mold Shrinkage, xflow, 1.5-3.2 mm	0.68	%	SABIC method
Melt Volume Rate, MVR at 300°C/5.0 kg	16	cm³/10 min	ISO 1133
ELECTRICAL			

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Volume Resistivity	1.41E+07	Ohm-cm	ASTM D 257
Surface Resistivity	4.8E+07	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	305 – 325	°C	
Front - Zone 3 Temperature	320 – 330	°C	
Middle - Zone 2 Temperature	310 – 320	°C	
Rear - Zone 1 Temperature	295 – 305	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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