LNP™ STAT-KON™ COMPOUND MX01767C

PDX-M-01767 CCS

DESCRIPTION

LNP STAT-KON MX01767C is a compound based on Polypropylene containing Proprietary Filler(s). Added features of this grade include: Electrically Conductive, Clean Compounding System.

TYPICAL PROPERTY VALUES

Revision 20191218

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	32	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	7.5	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	25.5	%	ASTM D 638
Tensile Modulus, 5 mm/min	1760	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	1490	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	31	MPa	ISO 527
Tensile Stress, break, 5 mm/min	22	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	6.6	%	ISO 527
Tensile Strain, break, 5 mm/min	18	%	ISO 527
Tensile Modulus, 1 mm/min	1570	MPa	ISO 527
Flexural Stress	35	MPa	ISO 178
Flexural Modulus, 2 mm/min	1510	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1470	J/m	ASTM D 4812
Izod Impact, notched, 23°C	130	J/m	ASTM D 256
Multiaxial Impact	32	J	ISO 6603
Instrumented Impact Total Energy, 23°C	37	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	141	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	95	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	53	°C	ASTM D 648
CTE, -40°C to 40°C, flow	9.2E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	9.5E-05	1/°C	ASTM E 831
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	89	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	52	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	0.98	-	ASTM D 792
Density	0.98	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow	1	%	SABIC method
Mold Shrinkage, xflow	2	%	SABIC method
Moisture Absorption (23°C / 50% RH)	0.01	%	ISO 62

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
ELECTRICAL			
Surface Resistivity	1.E+03	Ohm	ASTM D 257
INJECTION MOLDING			
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	

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