LNP™ STAT-KON™ COMPOUND MX01767C

PDX-M-01767 CCS

DESCRIPTION

LNP STAT-KON MX01767C compound is based on Polypropylene (PP) resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive, LNP Clean Compounding Technology.

GENERAL INFORMATION	
Features	Electrically Conductive, Low ionics/Outgassing/Liquid particle count, No PFAS intentionally added
Fillers	Carbon Powder
Polymer Types	Polypropylene, Unspecified (PP, Unspecified)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Electronic Components, Mobile Phone - Computer - Tablets
Industrial	Electrical, Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yld, Type I, 5 mm/min	32	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	20	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	7.5	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	25.5	%	ASTM D638
Tensile Modulus, 5 mm/min	1760	MPa	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span	1490	MPa	ASTM D790
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 [1]			
Izod Impact, unnotched, 23°C	1470	J/m	ASTM D4812
Izod Impact, notched, 23°C	130	J/m	ASTM D256
Multiaxial Impact	32	J	ISO 6603
Instrumented Dart Impact Total Energy, 23°C	37	J	ASTM D3763
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 [1]			
HDT, 0.45 MPa, 3.2 mm, unannealed	95	°C	ASTM D648

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT, 1.82 MPa, 3.2mm, unannealed	53	°C	ASTM D648
CTE, -40°C to 40°C, flow	9.2E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	9.5E-05	1/°C	ASTM E831
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 (1)			
Specific Gravity	0.98	-	ASTM D792
Density	0.98	g/cm³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.02	%	ASTM D570
Mold Shrinkage, flow (2)	1	%	SABIC method
Mold Shrinkage, xflow (2)	2	%	SABIC method
Moisture Absorption (23°C / 50% RH)	0.01	%	ISO 62
ELECTRICAL (1)			
Surface Resistivity (3)	1.E+03	Ω	ASTM D257
INJECTION MOLDING (4)			
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	

(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.

DISCLAIMER