LNP™ STAT-KON™ COMPOUND KX02764

PDX-K-02764

DESCRIPTION

LNP STAT-KON KX02764 compound is based on POM (Acetal) copolymer 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	Acetal (POM) Copolymer
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Under the Hood
Electrical and Electronics	Electronic Components
Industrial	Material Handling

TYPICAL PROPERTY VALUES

Revision 20241028

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yield	53	MPa	ASTM D638
Tensile Stress, break	47	MPa	ASTM D638
Tensile Strain, yield	3.8	%	ASTM D638
Tensile Strain, break	10.2	%	ASTM D638
Tensile Modulus, 50 mm/min	3480	MPa	ASTM D638
Flexural Stress	100	MPa	ASTM D790
Flexural Modulus	3010	MPa	ASTM D790
Tensile Stress, yield	53	MPa	ISO 527
Tensile Stress, break	46	MPa	ISO 527
Tensile Strain, yield	4	%	ISO 527
Tensile Strain, break	18.1	%	ISO 527
Tensile Modulus, 1 mm/min	3460	MPa	ISO 527
Flexural Stress	96	MPa	ISO 178
Flexural Modulus	3010	MPa	ISO 178
IMPACT [1]			
Izod Impact, unnotched, 23°C	373	J/m	ASTM D4812
Izod Impact, notched, 23°C	42	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	3	J	ASTM D3763
Multiaxial Impact	7	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	52	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m²	ISO 180/1A

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	106	°C	ASTM D648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	103	°C	ISO 75/Af
PHYSICAL [1]			
Density	1.443	g/cm³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.18	%	ASTM D570
Mold Shrinkage, flow, 24 hrs [2]	1.5 – 3.5	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs [2]	1.5 – 3.5	%	ASTM D955
Mold Shrinkage, flow, 24 hrs [2]	1.5 – 3.5	%	ISO 294
Mold Shrinkage, xflow, 24 hrs [2]	1.5 – 3.5	%	ISO 294
Density	1.43	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.25	%	ISO 62
ELECTRICAL [1]			
Volume Resistivity [3]	1.E+02 – 1.E+06	Ω.cm	ASTM D257
Surface Resistivity [3]	1.E+02 – 1.E+06	Ω	ASTM D257
INJECTION MOLDING [4]			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Melt Temperature	200 – 215	°C	
Front - Zone 3 Temperature	210 – 220	°C	
Middle - Zone 2 Temperature	195 – 205	°C	
Rear - Zone 1 Temperature	175 – 190	°C	
Mold Temperature	80 – 110	°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.

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