LNP™ STAT-KON™ COMPOUND OE008A

EMI-X OC-1008

DESCRIPTION

LNP STAT-KON OE008A compound is based on Polyphenylene Sulfide (PPS) branched resin containing 40% carbon fiber. Added features of this grade include: Electrically Conductive.

GENERAL INFORMATION	
Features	Electrically Conductive, Carbon fiber filled, High stiffness/Strength, No PFAS intentionally added
Fillers	Carbon Fiber
Polymer Types	Polyphenylene Sulfide, Branched (PPS, Branched)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Electronic Components
Industrial	Material Handling

TYPICAL PROPERTY VALUES

Revision 20241031

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Flexural Modulus, 2 mm/min	30300	MPa	ISO 178
Flexural Stress, break, 2 mm/min	290	MPa	ISO 178
Tensile Strain, break, 5 mm/min	0.7	%	ISO 527
Tensile Stress, break, 5 mm/min	179	MPa	ISO 527
Tensile Stress, break	180	MPa	ASTM D638
Tensile Strain, break	0.9	%	ASTM D638
Flexural Stress	262	MPa	ASTM D790
Flexural Modulus	27160	MPa	ASTM D790
IMPACT [1]			
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	25	kJ/m²	ISO 180/1U
Izod Impact, unnotched, 23°C	480	J/m	ASTM D4812
Izod Impact, notched, 23°C	37	J/m	ASTM D256
THERMAL [1]			
Relative Temp Index, Elec [2]	130	°C	UL 746B
Relative Temp Index, Mech w/impact [2]	130	°C	UL 746B
Relative Temp Index, Mech w/o impact [2]	130	°C	UL 746B
PHYSICAL [1]			
Density	1.49	g/cm³	ISO 1183
Density	1.49	g/cm³	ASTM D792
Mold Shrinkage, flow, 3.2 mm [3]	0.1 – 0.3	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm [3]	0.6 – 0.9	%	SABIC method

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
ELECTRICAL [1]			
Surface Resistivity [4]	1.E+01 – 1.E+03	Ω	ASTM D257
FLAME CHARACTERISTICS [2]			
UL Yellow Card Link	E121562-102581048	-	-
UL Recognized, 94V-0 Flame Class Rating	1	mm	UL 94
INJECTION MOLDING [5]			
Drying Temperature	120 – 150	°C	
Drying Time	4	Hrs	
Melt Temperature	315 – 340	°C	
Front - Zone 3 Temperature	330 – 345	°C	
Middle - Zone 2 Temperature	320 – 330	°C	
Rear - Zone 1 Temperature	305 – 315	°C	
Mold Temperature	140 – 165	°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) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.
(3) 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.
(4) Measurement meets requirements as specified in ASTM D4496.
(5) 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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