LNP™ STAT-KON™ COMPOUND RE008

EMI-X RC-1008

DESCRIPTION

LNP STAT-KON RE008 is a compound based on Nylon 66 containing 40% Carbon Fiber. Characteristics of this grade include: Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20200109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	259	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.3	%	ASTM D 638
Tensile Modulus, 5 mm/min	33330	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	390	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	25580	MPa	ASTM D 790
Tensile Strain, yield, 5 mm/min	252	%	ISO 527
Flexural Modulus, 2 mm/min	25000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1069	J/m	ASTM D 4812
Izod Impact, notched, 23°C	116	J/m	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	256	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	255	°C	ISO 75/Af
Relative Temp Index, Elec (1)	65	°C	UL 746B
Relative Temp Index, Mech w/impact (1)	65	°C	UL 746B
Relative Temp Index, Mech w/o impact (1)	65	°C	UL 746B
PHYSICAL			
Specific Gravity	1.32	-	ASTM D 792
ELECTRICAL			
Surface Resistivity	1.E+01 – 1.E+04	Ohm	ASTM D 257
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E121562-101282584	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	280 – 305	°C	
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	280 – 295	°C	
Rear - Zone 1 Temperature	265 – 275	°C	
Mold Temperature	95 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Screw Speed	30 – 60	rpm	

(1) 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.

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