LNP™ STAT-KON™ COMPOUND EJL20C

DESCRIPTION

LNP STAT-KON EJL20C is a static dissipative and wear resistant compound based on Polyetherimide (PEI) resin containing carbon nanotubes and PTFE. Added features of this grade include: LNP Clean Compounding Technology, Dimensional Stability, Wear Resistance. This material has a fit in broad range of markets including the semiconductor industry.

GENERAL INFORMATION	
Features	Electrically Conductive, Wear resistant, Low ionics/Outgassing/Liquid particle count, Dimensional stability
Fillers	Carbon nanotube, PTFE
Polymer Types	Polyetherimide (PEI)
Processing Techniques	Injection Molding
Regional Availability	Europe, Asia, Americas

TYPICAL PROPERTY VALUES

Revision 20241218

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, brk, Type I, 50 mm/min	98	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	5	%	ASTM D638
Tensile Modulus, 50 mm/min	2900	MPa	ASTM D638
Flexural Strength, 1.3 mm/min, 50 mm span	140	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	3100	MPa	ASTM D790
Tensile Stress, break, 50 mm/min	103	MPa	ISO 527
Tensile Strain, break, 50 mm/min	7	%	ISO 527
Tensile Modulus, 1 mm/min	3660	MPa	ISO 527
Flexural Strength, 2 mm/min	146	MPa	ISO 178
Flexural Modulus, 2 mm/min	3260	MPa	ISO 178
IMPACT [1]			
Izod Impact, notched, 23°C	48	J/m	ASTM D256
Izod Impact, unnotched, 23°C	610	J/m	ASTM D4812
Izod Impact, notched 80*10*3 +23°C	6	kJ/m²	ISO 180/1A
Izod Impact, unnotched 80*10*3 +23°C	48	kJ/m²	ISO 180/1U
THERMAL [1]			
HDT, 0.45 MPa, 3.2 mm, unannealed	210	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	200	°C	ASTM D648
PHYSICAL [1]			
Specific Gravity	1.34	-	ASTM D792
Melt Volume Rate, MVR at 337°C/6.7 kg	3	cm³/10 min	ISO 1133
ELECTRICAL [1]			
Surface Resistivity	1.E+04 – 1.E+07	Ω	ASTM D257
INJECTION MOLDING [2]			
Drying Temperature	150	°C	
Drying Time	4 – 6	Hrs	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Maximum Moisture Content	0.02	%	
Melt Temperature	340 – 400	°C	
Nozzle Temperature	380 – 400	°C	
Front - Zone 3 Temperature	360 – 400	°C	
Middle - Zone 2 Temperature	350 – 390	°C	
Rear - Zone 1 Temperature	340 – 380	°C	
Mold Temperature	140 – 180	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	1.5 – 2	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) 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.

DISCLAIMER