LNP™ STAT-KON™ Compound EJ000C

PEI-Z — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-KON* EJ000C is a static dissipative compound based on Polyetherimide (PEI) resin containing carbon nanotubes. Added features of this grade include: LNP Clean Compounding Technology, Dimensional Stability. This material has a fit in broad range of markets including the semiconductor industry (e.g. HDD parts).

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**2.5**	cm³/10min	ISO 1133
Temperature	**340**	°C	-
Load	**5**	kg	-
ASTM Data			
Mold Shrinkage, MD	**0.006**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.006**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**3650**	MPa	ISO 527
Stress at break	**110**	MPa	ISO 527
Strain at break	**4**	%	ISO 527
Flexural modulus, 23°C	**3620**	MPa	ISO 178
Flexural strength	**172**	MPa	ISO 178
Izod impact strength, +23°C	**52**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C	**5**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**3780**	MPa	ASTM D 638
Tensile Strength at Break	**110**	MPa	ASTM D 638
Elongation at Break	**4**	%	ASTM D 638
Flexural Modulus	**3970**	MPa	ASTM D 790
Flexural Strength	**176**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**41**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**645**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**201**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**211**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**40**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**40**	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 66 psi	**211**	°C	ASTM D 648
DTUL @ 264 psi	**201**	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	**1E7**	Ohm	ASTM D 257

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**150**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**340 - 400**	°C	-
Mold temperature	**140 - 180**	°C	-
Zone 1	**340 - 380**	°C	-
Zone 2	**350 - 390**	°C	-
Zone 3	**360 - 400**	°C	-
Nozzle temperature	**390 - 400**	°C	-
Screw speed	**0.15 - 0.2**	rpm	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Special Characteristics
Increased electrical conductivity

Applications
IT / Business Machine, Electrical and Electronical

Regional Availability
North America, Europe, Asia Pacific, South and Central America