POLIMAXX

TECHNICAL DATA SHEET
REV20230410

SC210BKC

Polystyrene Compound (PS Compound) / PS Condouctive Compound

PRODUCT DESCRIPTION

SC210BKC is a High Impact Polystyrene Conductive Compound with special additive package to obtain a good electrical conductivity. It is designed for the extrusion processing with good impact strength and long lasting conductive properties that suitable for conductive layer in three-layer co-extrusion sheet. Moreover, it provides surface resistivity in a range of 10^3 - 10^4 Ohm/square to prevent electrostatic discharge (ESD) phenomena in electronic devices packaging.

INDUSTRY

- Appliance & Electronic Parts
- IC Tray
- Electronic devices packaging

PRODUCT FEATURE

- High Flowability
- Low temperature process
- Low surface resistivity range 10^3 - 10^4 Ohm/square

REGULATION COMPLIANC

- RoHS Directive 2011/65/EU
- REACH Regulation (EC) No. 1907/2006

PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUE
Melt Flow Rate (200°C/5 kg)	ASTM D1238	g/10 min	1.25
Melt Flow Rate (200°C/10 kg)	ASTM D1238	g/10 min	5.5
Density (23°C)	ASTM D792	g/cm^3	1.11
MECHANICAL PROPERTY			
Tensile Strength at Yield (3.2 mm, 5 mm/min)	ASTM D638	kgf/cm^2	240
Tensile Modulus (3.2 mm, 5 mm/min)	ASTM D638	kgf/cm^2	19,000
Flexural Strength (6.4 mm, 2 mm/min)	ASTM D790	kgf/cm^2	360
Flexural Modulus (E-Modulus, 6.4 mm, 2 mm/min)	ASTM D790	kgf/cm^2	18,000
Izod Notched Impact Strength (6.4 mm, 23°C)	ASTM D256	kgf·cm/cm	6
ELECTRICAL PROPERTY			
Surface Resistivity	ASTM D257	Ohm/square	10^3 - 10^4
THERMAL PROPERTY *Annealed			
Vicat Softening Temperature (3.2 mm, 1 kg, 50 °C/h)*	ASTM D1525	°C	102

Conversion (1 kgf/cm^2 = 0.098 MPa | 1 kgf·cm/cm = 9.8 J/m)
Remark: The values presented above are typical laboratory, not to be construed as specifications and may vary within moderate ranges. The applicability or accuracy of this information or the suitability of our products cannot be guaranteed because users' conditions of use are beyond our control.

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PROCESSING TECHNIQUE

Drying Temperature	80 - 90 °C, 2 - 4 hours
Cylinder Temperature	170 - 230 °C
Die Temperature	180 - 210 °C

*However, the actual processing conditions depend on mold design, power of machine, equipment and other environments.

PRODUCT PACKAGING

- 25 kg loose bag
- 25 kg stretch wrap on palletized
- Jumbo bag

For further information, contact IRPC's Sales repesentative.

STORAGE

The resin should be stored in a dry location with good housekeeping practices during storage, transferring and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation. Resin should be protected from direct sunlight, temperatures above 38°C (100°F) and high atmospheric humidity during storage. Higher storage temperatures may reduce the storage time. The container should be kept closed to prevent contamination. For the additional recommended storage conditions, please refer to SDS.

SAFETY

This product is not classified as hazardous material for more information please refer to safety data sheet.

RECYCLING

It is an undisputed fact that the product can be recycled or disposed of without any problem.

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