



ZC-4102 Thermoplastic Semiconductive Shield Compound

The product is a kind of thermoplastic semiconductive shielding material, produced by mixed granulation based on high quality EVA resin, conductive carbon black as the main material, antioxidant and other additives. It has good fabricated extruding performance and good electrical conductivity with wide processing temperature range.

Application: Shielding material of silane crosslinkable polyethylene insulated cable conductor; Maximum working temperature is 70°C.

Property

Item		Unit	Test method	Typical value
Density@23°C		g/cm ³	ASTM D792	1.11
Tensile strength		MPa	IEC60811-1-1	11.5
Elongation at break		%		320
Impact embrittlement performance@-40°C	Failure number	Piece	ASTM D746	0/30
After aging @100°C, 240h	Tensile strength variation	%	IEC 60811-1-2	+10
	Breaking elongation variation	%		-12
Volume resistivity@20°C		Ω·cm	ASTM D257	25

Processing

Recommend to use specific extruder for shielding materials (draw ratio L/D = 20~25), other length to diameter ratio should be adjusted according to the circumstance.

Zone	Barrel	Head
Temperature Range °C	80-110	110-115

- Above temperature is only for reference.

Storage

Keep at room temperature; Storage environment should be clean, dry and ventilated; Please dry it after a long-time opening.

Product packing

600kg in each package; Inner lined with plastic sealed film bag; Corrugated carton with tray at the bottom.