

**ZC-4111 Inner Semiconductive Shield Compound for MV Power Cable up to 35kV**

This material is used for crosslinkable semiconductive wire and cable shielding material. It is made of high quality EVA resin, conductive black carbon as the main material, adding cross-linking agent, antioxidant and other additives; mixed granulation and fabrication process is stable and reliable in quality.

Application: Shielding material of 35kV crosslinkable polyethylene insulated cable conductor; Maximum working temperature is 90°C.

Property

Item		Unit	Test method	Typical value
Density@23°C		g/cm ³	ASTM D792	1.12
Tensile strength		MPa	IEC60811-1-1	17.0
Elongation at break		%		308
Impact embrittlement performance@-40°C	Failure number	Piece	ASTM D746	0/30
After aging @135°C, 168h	Tensile strength variation	%	IEC 60811-1-2	+7
	Breaking elongation variation	%		-5
Hot prolongation@200°C, 0.2MPa, 15min	Elongation under the load	%	IEC 60811-2-1	50
	Permanent deformation	%		0
Volume resistivity@20°C		Ω·cm	ASTM D257	25
Volume resistivity@90°C		Ω·cm	ASTM D257	240

Processing

Recommend for polyethylene specific extruder. Draw ratio is from 18:1 to 25:1 and other equipment need to be adjusted according to the circumstance. Recommend to use 60 to 80 type wire mesh filter.

Zone	1	2	3	4	5	Neck	Head	Die
Temperature Range°C	75	85	105	115	115	115	115	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.