

**ZC-4201 Outer Semiconductive Shield Compound for MV Power Cable up to 10kV**

This material is used for crosslinkable semiconductive shielding material. It is produced by using 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 10kV crosslinkable polyethylene insulated cable insulation layer; Maximum working temperature is 90°C.

Property

Item		Unit	Test method	Typical value
Density@23°C		g/cm ³	ASTM D792	1.15
Tensile strength		MPa	IEC60811-1-1	15.0
Elongation at break		%		300
Impact embrittlement performance@-40°C	Failure number	Piece	ASTM D746	0/30
After aging @135°C, 168h	Tensile strength variation	%	IEC 60811-1-2	+10
	Breaking elongation variation	%		-5
Hot prolongation@200°C, 0.2MPa, 15min	Elongation under the load	%	IEC 60811-2-1	55
	Permanent deformation	%		0
Volume resistivity@20°C		Ω·cm	ASTM D257	45
Volume resistivity@90°C		Ω·cm	ASTM D257	258
Peel strength		N/cm	ASTM D3330-02	38

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. Recommend to use 60 to 80 type wire mesh filter.

Zone	1	2	3	4	5	Neck	Head	Die
Temperature Range°C	65	85	95	105	105	105	105	105

- 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.