

**ZC-3201 Silane XLPE Compound of Sioplas Method for Wire and Cable up to 3kV**

This material is a kind of warm water crosslinkable polyethylene insulation compound which consisted of compound A and compound B. Compound A is made from high quality polyethylene resin, imported silane coupling agent and compound B is made from organotin catalysts and antioxidant agent. Loss-in-weight Feeder which guarantees stable precision of components. It has an excellent extrusion performance and stable physical and chemical index; Quick extruding speed and smooth surface.

Application: Low voltage crosslinkable wire and cable insulation; Maximum working temperature is 90°C.

Property

Item		Unit	Test method	Typical value
Density@23°C		g/cm ³	ASTM D792	0.92±0.01
Tensile strength		MPa	IEC 60811-1-1	18.0
Elongation at break		%		470
Impact embrittlement performance@-76°C	Failure number	Piece	ASTM D746	0/30
After aging @135°C, 168h	Tensile strength variation	%	IEC 60811-1-2	+6
	Breaking elongation variation	%		-3
Hot prolongation@200°C, 0.2MPa, 15min	Elongation under the load	%	IEC 60811-2-1	55
	Permanent deformation	%		0
Dielectric dissipation factor@20°C, 50HZ		—	IEC 60250	1×10 ⁻⁴
Relative dielectric constant@20°C, 50HZ		—		2.25
Dielectric strength@20°C		MV/m	IEC 60243-1	37
Volume resistivity@20°C		Ω·m	IEC 60093	6×10 ¹⁴
Gel content		%	ASTM D2765	66

Processing

Recommend to use polyethylene specific extruder. Draw ratio is from 18:1 to 25:1 and other equipment need to be adjusted according to the circumstance.

Zone	Feeding Section	Compression Section	Homogenization Section	Model Section
Temperature Range °C	150-170	170-185	180-190	190-200

- Above temperature is only for reference.

Storage

Keep at room temperature; Storage environment should be clean, dry and ventilated; Best use within six months from the date of production; Mix compound A and B, please use it up in 8 hours; Compound A should be used up within 24 hours after opened.

Product packing

- 25kg in each package, of which the grafted polyethylene (compound A) is 23.75kg/bag, catalytic masterbatch material (compound B) is 1.25 kg/bag;
- Compound A and B are in moisture resistant aluminum laminated bags with composite paper bags outside;
- Palletized bottom.