#### **ZC-3101** Peroxide XLPE Insulation Compound for MV Cable up to 10kV

This material is a kind of crosslinkable polyethylene insulation compound. It is made of high quality PE resin, dicumyl peroxide agent and antioxidant agent by plasticizing granulation. Production process uses the closed system; Loss-in-weight Feeder which guarantees stable precision of components. It has stable physical and chemical index and good processing property.

**Application:** 10kV crosslinkable cable insulation; Maximum working temperature is 90℃.

#### **Property**

Item			Test method	Typical value
Density@23℃		g/cm³	ASTM D792	0.92±0.01
Tensile strength		MPa	IEC C0044 4 4	23.0
Elongation at break		%	IEC 60811-1-1	540
Impact embrittlement performance@-76℃	Failure number	Piece	ASTM D746	0/30
After aging	Tensile strength variation	%	IEC 60811-1-2	+7
@135℃, 168h	Breaking elongation variation	%	IEC 00811-1-2	+1
Hot prolongation@200℃,	Elongation under the load	%	IEC 60811-2-1	60
0.2MPa, 15min	Permanent deformation	%	IEC 00811-2-1	0
Dielectric dissipation factor@20℃, 50HZ		_	IEC C03E0	1×10 <sup>-4</sup>
Relative dielectric constant@20℃, 50HZ		_	IEC 60250	2.25
Dielectric strength@20℃		MV/m	IEC 60243-1	39
Volume resistivity@20°C		Ω·m	IEC 60093	8×10 <sup>14</sup>
Gel content		%	ASTM D2765	87

## **Processing**

Recommend to use conventional extruder (three layers co-extrusion, draw ratio is from 20:1 to 30:1) . Other equipment need to be adjusted according to the circumstance.

Zone	Feeding Section	Compression Section	Homogenization Section	Model Section
Temperature Range <sup>°</sup> C	95-100	105-110	110-115	115-120

<sup>-</sup> Above temperature is only for reference.

## **S**torage

Keep at room temperature; Storage environment should be clean, dry and ventilated; Best use within six months from the date of production.

# **Product packing**

500kg in each package; Inner lined with plastic sealed film bag; Corrugated carton with tray at the bottom.

Web: www.zcnewmaterials.comTel: 00 86 025 68618183Email: info@zcnewmaterials.comSkype: zcnewmaterials