

## Borealis LE0516 Polyethylene Compound, Crosslinkable, Semiconductive

Category : Polymer , Thermoplastic , Polyethylene (PE)

### Material Notes:

LE0516 is a crosslinkable black polyethylene compound, specially designed for strippable semi conductive screen applications.

Applications: LE0516 is intended for strippable outer semi conductive shielding of XLPE medium voltage cables with rated voltages up to 36 kV. Specifications: AEIC CS8-00 (1st edition); BS 6622; ICEA S-94-649; IEC 60502; NF C33-223; NF C33-226; and UTE C 33-223. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-LE0516-Polyethylene-Compound-Crosslinkable-Semiconductive.php](http://www.lookpolymers.com/polymer_Borealis-LE0516-Polyethylene-Compound-Crosslinkable-Semiconductive.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	ISO 1183/ISO 1872-2
Water Absorption	0.080 %	0.080 %	Karl Fischer-titration

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.0 MPa	2180 psi	ISO 527
Elongation at Break	400 %	400 %	25mm/min; ISO 527

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 100 ohm-cm	<= 100 ohm-cm	ISO 3915
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 1000 ohm-cm	<= 1000 ohm-cm	ISO 3915
	@Temperature 90.0 °C	@Temperature 194 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	40.0 °C	104 °F	drying temperature; under agitation with a dewpoint of -35°C
	280 °C	536 °F	maximum surface temperature, curing tube
Feed Temperature	>= 40.0 °C	>= 104 °F	
Melt Temperature	120 - 140 °C	248 - 284 °F	
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Göttfert Elastograph (Nm)	0.6-1.0	

Descriptive Properties	Value	Comments
	25	MPa; IEC 60811-2-1; Permanent Deformation 200°C, 0.2 MPa; IEC 60811-2-1; Elongation under load

## Contact Songhan Plastic Technology Co.,Ltd.

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