

## Borealis Visico™ LE0540 Polyethylene Semiconductive Compound, Crosslinkable

Category : Polymer , Thermoplastic , Polyethylene (PE)

### Material Notes:

Visico™ LE0540 is a silane crosslinkable black polyethylene compound, specially designed for bonded semiconductive screen applications. Visico™ LE0540 is highly suitable for co-extrusion with LDPE silane crosslinkable insulation materials. Applications: Visico™ LE0540 is intended for semiconductive applications for silane crosslinkable medium voltage cables with rated voltages up to 36 kV. Specifications: AEIC CS8; BS 6622; Cenelec HD 620 S-1; IEC 60502; ISO 1872-E/BA, KHXY, 23-G200, C30; and NF C33-223. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Visico-LE0540-Polyethylene-Semiconductive-Compound-Crosslinkable.php](http://www.lookpolymers.com/polymer_Borealis-Visico-LE0540-Polyethylene-Semiconductive-Compound-Crosslinkable.php)

| Physical Properties | Metric  | English   | Comments               |
|---------------------|---|---|------------------------|
| Density             | 1.08 g/cc   | 0.0390 lb/in <sup>3</sup>                           | ISO 1183/ISO 1872-2    |
| Water Absorption    | 0.020 %   | 0.020 %   | Karl Fischer-titration |
| Melt Flow           | 25 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 25 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ISO 1133               |

| Mechanical Properties     | Metric      | English     | Comments                                 |
|---------------------------|-------------|-------------|--|
| Hardness, Shore D         | 50          | 50          | 1s; ISO 868                              |
| Tensile Strength at Break | <= 2.60 MPa | <= 377 psi  | after aging (240h, 135°C); IEC 60811-1-2 |
|                           | >= 13.0 MPa | >= 1890 psi | 25mm/min; ISO 527                        |
| Elongation at Break       | 400 %       | 400 %       | 25mm/min; ISO 527                        |

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

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Zone 2                | 150 °C | 302 °F  |          |
| Zone 3                | 150 °C | 302 °F  |          |

| Processing Properties | Metric     | English    | Comments |
|-----------------------|------------|------------|----------|
| Melt Temperature      | 170 °C     | 338 °F     |          |
| Head Temperature      | 150 °C     | 302 °F     |          |
| Shelf Life            | 18.0 Month | 18.0 Month |          |

| Descriptive Properties            | Value | Comments   |
|-----------------------------------|-------|--|
| High Temperature Pressure Test, % | < 5   | 90°C, 6h; IEC 60811-3-1                              |
| Hot Set Test, %                   | 25    | 200°C, 0.2 MPa; IEC 60811-2-1; Elongation under load |

## Contact Songhan Plastic Technology Co.,Ltd.

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