

# Borlink™ LE0550DC

Polyethylene  
Borealis AG

Message:

Borlink LE0550DC is a Supersmooth crosslinkable black polyethylene compound, specially designed for semiconductive conductor screen and bonded insulation screen of energy cables.

| General Information                               |                             |         |               |
|---------------------------------------------------|-----------------------------|---------|---------------|
| Additive                                          | Carbon black                |         |               |
| Features                                          | Crosslinkable               |         |               |
| Uses                                              | Wire and cable applications |         |               |
|                                                   | Insulating material         |         |               |
| Physical                                          | Nominal Value               | Unit    | Test Method   |
| Density                                           | 1.10                        | g/cm³   | ISO 1183      |
| Moisture                                          | 100                         | ppm     | Karl Fisher   |
| Thermoset <sup>1</sup>                            |                             |         | IEC 60811-507 |
| Elongation under load : 200°C                     | 25                          | %       | IEC 60811-507 |
| Permanent deformation : 200°C                     | 0.0                         | %       | IEC 60811-507 |
| Mechanical                                        | Nominal Value               | Unit    | Test Method   |
| Tensile Stress                                    | 22.0                        | MPa     | ISO 527-2/25  |
| Tensile Strain (Break)                            | 380                         | %       | ISO 527-2/25  |
| Aging                                             | Nominal Value               | Unit    | Test Method   |
| Change in Tensile Strength in Air (135°C, 168 hr) | < 20                        | %       | IEC 60811-507 |
| Electrical                                        | Nominal Value               | Unit    | Test Method   |
| Volume Resistivity                                |                             |         | ISO 3915      |
| 23°C                                              | < 1.0E+2                    | ohms·cm | ISO 3915      |
| 90°C                                              | < 1.0E+3                    | ohms·cm | ISO 3915      |
| Extrusion                                         | Nominal Value               | Unit    |               |
| Melt Temperature                                  | 120 - 130                   | °C      |               |
| Extrusion instructions                            |                             |         |               |
| Predrying: 60°C                                   |                             |         |               |
| NOTE                                              |                             |         |               |
| 1.                                                | 0.10 MPa                    |         |               |

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