# Borlink™ LE0595

Crosslinked Polyethylene

Borealis AG

## Message:

Borlink LE0595 is a crosslinkable black polyethylene compound, specially designed for semiconductive conductor screen and bonded insulation screen of energy cables.
Borlink LE0595 is designed for semiconductive screens in XLPE medium and high voltage cables. It can be used as inner and outer screen for bonded cable construction and as inner screen for strippable cable constructions.
Borlink LE0595 meets the applicable requirements as below when processed using sound extrusion practices and testing procedures
AEIC CS8
AEIC CS9
BS 6622
DIN VDE 0276-263
DIN VDE 0276-620
Cenelec HD 620 S1
Cenelec HD 632 S1
IEC 60502-2
IEC 60840
ICEA S-93-639
ICEA S-94-649
ICEA S-97-682
ICEA S-108-720
NF C33-223
NF C33-226
Borlink LE0595 is a ready-to-use semiconductive compound. It offers excellent thermal stability which provides robust cable extrusion and crosslinking at high surface temperature, allowing for high line speed.
The excellent distribution of carbon black and additives in Borlink LE0595 results in a smooth semiconductive screen.

| General Information | |
|---|---|
| Additive | Carbon Black<br>Unspecified Additive |
| Features | Copolymer<br>Crosslinkable<br>Semi Conductive |
| Uses | Cable Jacketing<br>High Voltage Insulation<br>Medium Voltage Insulation<br>Wire & Cable Applications |
| Agency Ratings | AEIC CS8<br>AEIC CS9<br>BS 6622<br>DIN VDE 0276-263<br>DIN VDE 0276-620<br>HD 620 S1 |

HD 632 S1

ICEA S-108-720

ICEA S-93-639

ICEA S-94-649

ICEA S-97-682

IEC 60502-2

IEC 60840

NF C 33-223

NF C 33-226

| | | | |
|---|---|---|---|
| Appearance | Black | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.14 | g/cm³ | ISO 1183 |
| Moisture Content | 200 | ppm | Karl Fisher |
| Change in Tensile Properties - After Ageing 168 h (135°C) | < 20 | % | IEC 60811-401 |
| Hot Set | | | IEC 60811-507 |
| Elongation under load, 0.20 MPa : 200°C | 25 | % | |
| Permanent deformation, 0.20 MPa : 200°C | 0.0 | % | |
| Monsanto ODR | 61.0 | dNm | ASTM D2084 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress (Yield) | 22.0 | MPa | ISO 527-2/25 |
| Tensile Strain (Break) | 200 | % | ISO 527-2/25 |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Volume Resistivity | | | ISO 3915 |
| 23°C | < 1.0E+2 | ohms·cm | |
| 90°C | < 1.0E+3 | ohms·cm | |
| **Extrusion** | **Nominal Value** | **Unit** | |
| Drying Temperature | 60.0 | °C | |
| Drying Time | 4.0 | hr | |
| Melt Temperature | 120 to 135 | °C | |



Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China