

Borealis Supercure™ LC8205R Polyethylene Insulation Compound, Crosslinkable

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Supercure™ LC8205R is a crosslinkable natural polyethylene compound, specially designed for insulation applications. Applications: Supercure™ LC8205R is intended for insulation of XLPE power cables with rated voltages up to 72 kV. It is developed for constructions with bonded insulation shields. Specifications: Supercure™ LC8205R meets the applicable requirements as below when processed using sound extrusion practice and testing procedure: AEIC CS8; HD 620 S1, Part 1, table 2A, DIX 3 to 14; IEC 60502; and DIN VDE 0276-620. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Supercure-LC8205R-Polyethylene-Insulation-Compound-Crosslinkable.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|---------------------------------|
| Density | 0.924 g/cc | 0.0334 lb/in ³ | base resin; ISO 1183/ISO 1872-2 |
| Water Absorption | 0.020 % | 0.020 % | Karl Fischer-titration |
| Melt Flow | 3.0 g/10 min @Load 2.16 kg, Temperature 190 °C | 3.0 g/10 min @Load 4.76 lb, Temperature 374 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------|-------------|--|
| Tensile Strength at Break | <= 3.40 MPa | <= 493 psi | after aging (168h, 135°C); IEC 60811-1-2 |
| | >= 17.0 MPa | >= 2470 psi | 250mm/min; ISO 527 |
| Elongation at Break | >= 450 % | >= 450 % | 250mm/min; ISO 527 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-------------------------------------|------------------------------------|-----------|
| Volume Resistivity | >= 1.00e+6 ohm-cm | >= 1.00e+6 ohm-cm | IEC 60093 |
| Dielectric Constant | 2.3 @Frequency 50000 Hz | 2.3 @Frequency 50000 Hz | IEC 60250 |
| Dielectric Strength | >= 22.0 kV/mm @Frequency 50.0 Hz | >= 559 kV/in @Frequency 50.0 Hz | IEC 60243 |
| Dissipation Factor | 0.00050 @Frequency 50000 Hz | 0.00050 @Frequency 50000 Hz | IEC 60250 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Melt Temperature Processing Properties | 125 - 130 °C Metric | 257 - 266 °F English | Comments |
|---|------------------------|-------------------------|----------|
| Shelf Life | 18.0 Month | 18.0 Month | |

| Descriptive Properties | Value | Comments |
|---------------------------|-----------|--|
| Göttfert Elastograph (Nm) | 0.59-0.74 | |
| Hot Set Test, % | 5 | 200°C, 0.2 MPa; IEC 60811-2-1; Permanent Deformation |
| | 75 | 200°C, 0.2 MPa; IEC 60811-2-1; Elongation under load |
| Methanol Wash (ppm) | < 500 | |

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