

Borealis Visico™/Ambicat™ LE4427/LE4476 Polyethylene Compound, Crosslinkable

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Visico™ LE4427 / Ambicat™ LE4476 is a silane crosslinkable black compound designed for weather resistant covering/insulation of overhead and façade cables. The black base material Visico™ LE4427 in combination with the catalyst masterbatch Ambicat™ LE4476 will accelerate the moisture-induced crosslinking reaction. The system is highly active and crosslinks quickly at ambient conditions, in sauna or in hot water. When properly mixed, addition of 5 parts of Ambicat™ LE4476 to 95 parts of Visico™ LE4427 , insulation with excellent thermo-oxidative stability, also in contact with copper as well as aluminum, is achieved. Applications: Weather resistant covering/insulation of overhead and façade cables. Additives: Visico™ LE4427 / Ambicat™ LE4476 contains antioxidant, metal deactivator and a drying agent. Visico™ LE4427 contains a permanent scorch retardant additive, ensuring safe processing and enabling the use of a highly active crosslinking catalyst. Specifications: ANSI/ICEA S-70-547; ASTM D 1248 Type II, Class C, Category 4; HD 603 S1; HD 626 S1 (TIX-1, TIX-3, TIX-5, TIX-7, TIX8); NF C33-209 part 6-2 (Except messenger wire); NEMA WC 70; and NEMA WC 71. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-VisicoAmbicat-LE4427LE4476-Polyethylene-Compound-Crosslinkable.php

| Physical Properties | Metric | English | Comments |
|---------------------------------------|--|--|-----------------------------------|
| Density | 0.935 g/cc | 0.0338 lb/in ³ | mixture 95:5; ISO 1183/ISO 1872-2 |
| Environmental Stress Crack Resistance | >= 96 hour @Temperature 50.0 °C | >= 96 hour @Temperature 122 °F | Igepal 10%, F20; IEC 60811-4-1/B |
| Carbon Black Loading | 2.5 % | 2.5 % | ISO 6964 |
| Melt Flow | 1.0 g/10 min @Load 2.16 kg, Temperature 190 °C | 1.0 g/10 min @Load 4.76 lb, Temperature 374 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--------------|-------------|--|
| Tensile Strength at Break | <= 10.5 MPa | <= 1520 psi | after aging (6 weeks); IEC 60811-1-2 |
| | <= 11.25 MPa | <= 1632 psi | after aging (240h, 135°C); IEC 60811-1-2 |
| | <= 12.75 MPa | <= 1849 psi | after aging (3-6 weeks); IEC 60811-1-2 |
| | >= 15.0 MPa | >= 2180 psi | 250mm/min; ISO 527 |
| Elongation at Break | >= 300 % | >= 300 % | 250mm/min; ISO 527 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|-------------|------------|-----------|
| Brittleness Temperature | <= -76.0 °C | <= -105 °F | ASTM D746 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-------------------------------|-------------------------------|-----------|
| Volume Resistivity | >= 1e+05 | >= 1e+05 | IEC 60093 |
| Dielectric Constant | 2.9 @Frequency 50000 Hz | 2.9 @Frequency 50000 Hz | IEC 60250 |
| Dissipation Factor | 0.0010 @Frequency 50000 Hz | 0.0010 @Frequency 50000 Hz | IEC 60250 |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------|------------|----------|
| Zone 1 | 150 °C | 302 °F | |
| Zone 2 | 170 °C | 338 °F | |
| Zone 3 | 170 °C | 338 °F | |
| Zone 4 | 170 °C | 338 °F | |
| Die Temperature | 170 °C | 338 °F | |
| Shelf Life | 15.0 Month | 15.0 Month | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|--|
| Hot Set Test, % | 0 | 200°C, 0.3 MPa; IEC 60811-2-1; Permanent Deformation |
| | 30 | 200°C, 0.3 MPa; IEC 60811-2-1; Elongation under load |

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