



Medium Voltage Semiconductor Compound – Peroxide

Description

ZARLNK™ SC0592 is a crosslinkable black polyethylene compound, specially designed for semiconductive conductor screen and bonded insulation screen of power cables.

Applications

ZARLNK™ SC0592 is intended for semiconductive screen of XLPE medium voltage (MV) AC cables with rated voltages up to 33 kV (Um = 36 kV). It can be used as conductor and insulation screen for bonded cable constructions and as conductor screen for strippable cable constructions.

The values are voltages between phases as defined in IEC 60183.

Specifications

ZARLNK™ SC0592 LE0592 is expected to meet the applicable requirements included in the below mentioned standards provided it is processed using sound material handling, extrusion and crosslinking practices as well as appropriate testing procedures. This applies up to the maximum recommended voltage level indicated in "Applications" section above since some standards cover wider voltage ranges.

IEC 60502-2

AEIC CS9 (below 8 kV/mm)

AEIC CS8

ANSI/ICEA S-108-720

ANSI/ICEA S-93-639

ANSI/ICEA S-94-649

ANSI/ICEA S-97-682

DIN VDE 0276-620

DIN VDE 0276-632

Cenelec HD 620 S2 (Part 1)

Cenelec HD 632 S1

NF C33-226

UL 1072

Special Features

ZARLNK™ SC0592 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 ZARLNK™ SC0592 results in a smooth semiconductive screen.

Physical Properties

Data should not be used for specification work



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- **Storage**

ZARLNK™ SC0592 has a shelf life of 18 months from production date if stored in unopened original packages, under dry and clean conditions at temperatures between 10 - 30 °C (50 - 85 °F).

Material shelf life is affected by the storage conditions and extreme conditions influence the general material quality and performance. An opened package should be used within two weeks or be sealed airtight for further storage. Before use, material shall be conditioned indoors (production room) to reach ambient temperature. It is also recommended to ensure proper stock rotation by First In – First Out principle.