



SHAKUN POLYMERS LIMITED



SP-PESC-56 DEFORMATION RESISTANCE SEMI CONDUCTING THERMOPLASTIC COMPOUND FOR POWER CABLES

Description

SP-PESC-56 is a Thermoplastic LLDPE based Semi-Conducting Compound used for skin coating over PE Sheath for XLPE insulated high and extra high voltage Power Cables. It has excellent heat deformation resistant characteristics and specially designed for use as a thermoplastic semi conductive for over all jacket where superior thermal stress crack resistance, toughness are the desired properties. Further it is easy to process and has low volume resistivity.

Specification

SP-PESC-56 meets the requirement of:

- IEC 60502

Properties

| Properties | Test Method | Unit | Typical Value |
|---|-------------|-------------------|---------------|
| Melt Flow Index, 190°C, 21.6 Kg. | ASTM D 1238 | g/10 min. | 15 |
| Density at 27°C | ASTM D 1505 | g/cm ³ | 1.08 |
| Tensile Strength (25mm/min) | ASTM D 638 | MPa | 18 |
| Elongation (25mm/min) | ASTM D 638 | % | 500 |
| Variation in Tensile Properties After ageing 168 hrs. at 121°C | ASTM D 638 | % | < 20 |
| Shore D Hardness | ASTM D 2240 | -- | 58 |
| DC Volume Resistivity - at 23°C - at 90°C | ASTM D 257 | ohm-cm ohm-cm | < 50 < 100 |

* Tensile Properties on 1 mm Extruded Tape

* Data should not be used for specification work

Processing

Semiconducting SP-PESC-56 has been formulated to be easily extrudable using conventional polyethylene extrusion lines. For optimum extrusion result with SP-PESC-56 use melt extrusion temperature in the range of 170 - 220°C. Specific processing condition can be determined only by trials on individual equipment.

Semiconducting SP-PESC-56 absorbs moisture which can result in porosity in the extrudate. It is therefore recommended that the compound be thoroughly dried prior to use, usually 2-4 hours in hopper drier at 70 -75°C.

Shipment

SP-PESC-56 is available in the form of free flowing pellets and supplied in bags of moisture resistant materiel with a net content of 25 Kg.

This information is to the best of our knowledge, accurate but all recommendations or suggestions are made without guarantee since the conditions of use are beyond our control. The typical values given do not constitute specification for the product but represent typical analytical values.

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