



SHAKUN POLYMERS LIMITED

SPP-05-CA



BLACK LINEAR LOW DENSITY POLYETHYLENE COMPOUND FOR CABLE SHEATHING / JACKETING

Description

SPP-05-CA is a Black Linear Low Density Polyethylene Compound for sheathing/jacketing of telecommunication cables. It is characterized by very good environmental stress crack resistance, toughness, low temperature performance and offers easy processability. It contains a well-dispersed carbon black of fine particle size in order to ensure excellent weathering resistance.

Specification

SPP-05-CA meets the requirement of telephone cable sheathing/jacketing as per following specification:

- BS 6234, Type 03C, TS1
- ASTM D 1248, Type 1, Class C, Category 5, Grade E5, J3

Properties

| Physical Properties | Test Method | Unit | Typical Value |
|------------------------------|--------------------|-------------------|----------------------|
| Melt Index | ASTM D 1238 | g/10 min | 0.25 |
| Density of Compound | ASTM D 1505 | g/cm ³ | 0.9320 |
| Tensile Strength | ASTM D 638 | MPa | 20 |
| Yield Strength | ASTM D 638 | MPa | 14 |
| Elongation | ASTM D 638 | % | 800 |
| ESCR (10% IGEPAL) Fo | ASTM D 1693 | h | >1000 |
| OIT, 200 °C, Cu-Pan | ASTM D 3895 | min | > 60 |
| Shore D Hardness | ASTM D 2240 | -- | 52 |
| Carbon Black Content | ASTM D 1603 | % | 2.5 ± 0.5 |
| Carbon Black Dispersion | BS 2782 | rating | 3 |
| Electrical Properties | | | |
| Dielectric Constant | ASTM D 150 | - | 2.40 |
| Dissipation Factor | ASTM D 150 | - | 0.0005 |
| Dielectric Strength | ASTM D 149 | kV/mm | 20 |
| Volume Resistivity | ASTM D 257 | ohm-cm | 10 ¹⁶ |

Data should not be used for specification work

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Processing

Melt temperature in the range of 200 - 230°C is recommended. However, specific recommendations would depend upon various factors being known with respect to the processing equipment. In case of moisture pick-up on storage, hopper drying at 70°C is recommended.

Shipment

SPP-05-CA is available in the form of free flowing granules and supplied in raffia bags 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 or legal liabilities since the conditions of use are beyond our control. The typical value given do not constitute specification for the product but represent typical analytical values.

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