



SHAKUN POLYMERS PRIVATE 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 2, Class C, Category 5, Grade E5, J3
- IEC 60502, TYPE ST3 & ST7

Properties

Physical Properties	Test Method	Unit	Typical Value
Melt Index	ASTM D 1238	g/10 min	0.3
Density of Compound	ASTM D 1505	g/cm ³	0.935
Tensile Strength	ASTM D 638	MPa	20
Elongation at break	ASTM D 638	%	700
Elongation at break after heat ageing at 110°C for 14 days	ASTM D 638	%	>500
Pressure Test (at 110°C for 6hrs)	IEC 60811-3-1	%	24
ESCR (10% IGEPAL) Fo	ASTM D 1693	H	>2000
OIT at 200 °C	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	-	2.4
Dissipation Factor	ASTM D 150	-	0.0005
Dielectric Strength	ASTM D 149	kV/mm	20
Volume Resistivity	ASTM D 257	ohm-cm	1 x 10 ¹⁶

Data should not be used for specification work

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Processing

Melt temperature in the range of 200 - 220°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.

Storage & shelf life

The product/compound should remain in

- Sealed condition
- Without exposing to direct sunlight and temperature not exceeding 45°C

Shelf life of the compound is 12 months from the date of manufacture.

Product alteration may occur due to extended period of storage.

Shakun accepts no liability of any kind in case the above mentioned storage conditions are not fulfilled.

Safety

SPP-05-CA is not classified as a dangerous preparation.

The product is supplied in form of pellets of about 2 – 3 mm in size and can be readily handled with commercially available equipment. All handling and transport of the product may generate some dust and fines, which constitute a potential risk for dust explosion. Therefore, all instruments in the system should be properly grounded. Properly designed equipment and good storage will reduce the potential risk. Please, check and follow local disposal regulations!

Inhalation of any type of dust may irritate the air passages and should be avoided. For hot products: immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat.

In case of adverse exposure to melting products formed at elevated temperatures, immediately remove the affected victim from exposure.

Sweep up spilled granules and place in suitable containers for recycle or disposal. Consult an expert on disposal or recovered material and ensure conformity to local disposal regulations.

The product is intended for industrial use only. A Material Safety Datasheet is available on request. Please contact our Technical Team at SHAKUN POLYMERS PRIVATE LTD., for more details on various aspects of safety, recovery and disposal of the product.

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 values given do not constitute specification for the product but represent typical analytical values.

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