



SHAKUN POLYMERS LIMITED



HTP-HDS

BLACK HIGH DENSITY POLYETHYLENE COMPOUND

Description

HTP-HDS is a High Density Polyethylene Sheathing Compound especially designed to meet the very rigorous requirement for Sheathing of Optical Fibre and Power Cables. It has got excellent ESCR and heat deformation properties and contains well-dispersed Carbon Black of fine particle size in order to ensure excellent weathering resistance.

Specification

HTP-HDS meets the following specification.

- BS 6234: TYPE H03C, TS2
- ASTM D 1248, TYPE III, CLASS C, CATEGORY 5, GRADE E8, E9, J4.

Properties

<i>Physical Properties</i>	<i>Test Method</i>	<i>Unit</i>	<i>Typical Value</i>
Melt Index	ASTM D 1238	g/10 min	0.30
Density at 27° C	ASTM D 1505	g/cm ³	0.9540
Tensile Strength	ASTM D 638	MPa	25
Yield Strength	ASTM D 638	MPa	19
Elongation	ASTM D 638	%	800
ESCR (10%IGEPAL) Fo	ASTM 1693	h	> 100
OIT, 200 °C, Cu-Pan	ASTM D 3895	min	> 40
Shore D Hardness	ASTM D 2240	--	60
Shrinkage	ASTM D 1204	%	1.50
Carbon Black Content	ASTM D 1603	%	2.5 ± 0.5
Carbon Black Dispersion	BS 2782	rating	3
<i>Electrical Properties</i>			
Dielectric Constant	ASTM D 150	--	2.45
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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Application

In addition to Sheathing of Optical Fibre Cables, HTP-HDS is also well suited for jacketing of power cables and can resist severe laying conditions even at elevated ambient temperatures. The ESCR and petroleum jelly resistance makes its suitable for jacketing of communication cables as well.

Processing Temperature

HTP-HDS can be processed at a melt temperature in the range of 190-230° C.

Packaging

HTP-HDS is available in the form of free flowing granules and supplied in Raffia Bags with a net content of 25 Kgs.

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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