



SHAKUN POLYMERS LIMITED

HTP-HDS-HMW



BLACK HIGH MOLECULAR WEIGHT POLYETHYLENE COMPOUND

Description

HTP-HDS-HMW is a Black High Molecular Weight Polyethylene Compound especially designed to meet the very rigorous requirement for Sheathing in 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-HMW meets the following specification.

- ASTM D 1248, TYPE III, CLASS C, CATEGORY 5, GRADE E11, E9, J5.

Properties

<i>Physical Properties</i>	<i>Test Method</i>	<i>Unit</i>	<i>Typical Value</i>
Melt Index @ 5.00 Kgs, 190°C	ASTM D 1238	g/10 min	0.30
Density at 27° C	ASTM D 1505	g/cm ³	0.963
Tensile Strength	ASTM D 638	MPa	28
Elongation	ASTM D 638	%	700
ESCR (10%IGEPAL) Fo	ASTM 1693	h	> 100
OIT, 200 °C, Cu-Pan	ASTM D 3895	min	> 60
Shore D Hardness	ASTM D 2240	--	66
Carbon Black Content	ASTM D 1603	%	2.5 ± 0.5
Carbon Black Dispersion	BS 2782	rating	3
Dielectric Constant	ASTM D 150	--	2.45
Dissipation Factor	ASTM D 150	--	0.0004
Volume Resistivity	ASTM D 257	ohm-cm	10 ¹⁷

*Data should not be used for specification work

Processing Temperature

HTP-HDS-HMW can be processed at a melt temperature in the range of 215-235 ° C.

Packaging

HTP-HDS-HMW 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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