



SHAKUN POLYMERS LIMITED

HTP-HDS (TR)



BLACK HIGH DENSITY POLYETHYLENE TRACK

RESISTANT COMPOUND FOR OPTICAL FIBRE CABLES

Description

HTP-HDS (TR) is based on High Density Polyethylene and has a specially designed additive package to give excellent track resistance. It is also well protected against UV degradation in order to ensure outstanding weathering resistance.

Application

HTP-HDS (TR) is developed for jacketing Fibre Optical Cables designed for installation in high voltage power transmission lines.

The compound may also be used for other applications where thermoplastic track resistant materials can be applied.

HTP-HDS (TR) can resist severe installation and service conditions even at elevated temperatures.

HTP-HDS (TR) is characterized by excellent

- Mechanical properties
- ESCR
- Heat deformation resistance
- Track resistance
- Processing properties

Typical Properties of Compound

<i>Physical Properties</i>	<i>Test Method</i>	<i>Unit</i>	<i>Typical Value</i>
Melt Index	ASTM D 1238	g/10 min	0.35
Density at 27° C	ASTM D 1505	g/cm ³	0.950
Yield Strength	ASTM D 638	kg/cm ²	160
Tensile Strength	ASTM D 638	kg/cm ²	220
Elongation	ASTM D 638	%	800
ESCR (10%IGEPAL) Fo	ASTM 1693	h	> 1000
OIT, 200 °C, Cu-Pan	ASTM D 3895	min	> 60
Shore D Hardness	ASTM D 2240	--	63
Shrinkage	ASTM D 1204	%	1.20
<i>Electrical Properties</i>			
Dielectric Constant	ASTM D 150	--	2.35
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 (TR) 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 (TR) can be processed at temperatures starting from 140°C on Extruder Barrel Zone 1 to 230°C on Die.

Packaging

HTP-HDS (TR) 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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