

# HDP 111

## HIGH DENSITY POLYETHYLENE (HDPE) SHEATHING COMPOUND

### Description

HDP 111 is a Bimodal High-Density Polyethylene (HDPE) compound suitable for Sheathing / Jacketing of various Cables. It has been formulated with necessary additives and processing aid to achieve good extrusion..

### Product Profile

It displays good ESCR properties. The compound contains well dispersed Carbon Black of fine particle size, which will impart good weather resistance properties

### Specifications

HDP 111 compound meets the following specifications:

ASTM D 1248, TYPE III CLASS C, CATEGORY 5 GRADE E8, E9 J4

BS 6234: TYPE H03C, TS 2 & ST 71

### Applications

HDP 111 compound is be suitable for Sheathing / Jacketing of Optic Fiber / JFTC Cables and gives smooth finish.

### Technical Specifications Sheet

Properties	Test Method	Unit	Typical Value
<b>a) Physical</b>			
Density	ASTM D 792	gm/cc	0.952±0.003
MFI (2.16 kg @190°C)	ASTM D 1238	g/10 min	0.2-0.60
<b>b) Mechanical</b>			
Hardness	ASTM D 2240	Shore D	50 +/- 2
Tensile Strength (50mm/min)	ASTM D 638	Mpa	>20
Elongation at Break (50mm/min)	ASTM D 638	%	>700
<b>c) Thermal</b>			
ESCR (10 % IGEPAL)	ASTM D 1693	Hours	>500
Shrinkage	ASTM D 1204	%	<1.7%
<b>d) Electrical</b>			
Dielectric Constant	ASTM D 1531	-	2.35
Dissipation Factor	ASTM D 150	-	0.002
Volume Resistivity	ASTM D 257	Ω –cm	7.8 x 10 <sup>14</sup>
Absorption Co-efficient @375nm	ASTM D 3349	Kab/m	Min 400
Britliness Temperature % fail @ -720 C	ASTM D 746	-	No Failure
UV Resistance	ASTM G 154	Hours	4000

## Color Options

It is recommended to use RoHS compliant Masterbatch for attaining the desired colour for the cables which conforms to RAL colour standards. We can also supply mass coloured compound as per the RAL Shade (Black/Green/ Orange / Yellow / White).

## Packaging, Storage & Transport

Package	Net Weight 25 kgs	PP Laminated Bags 500/1200 kgs - PP based Jumbo Bags
Transport	Requirement	Keep away from the sunshine, rain & soaking during transport, as well as handle gently while carrying.
Storage	Environment	Clean, dry and ventilated ware house.

## Technical Assistance

Our technical team will be available for assistance on request.

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## Disclaimer

The above mentioned recommendations are derived after various trials and checks conducted under different conditions. It is advised that the above stated information must be used as guidelines only. We suggest that the customer conducts their own trials and arrive at the optimum processing parameters which are best suited for their equipment and processing conditions. Sankhla does not take any responsibility for any sort of loss arising due to improper handling or usage of materials supplied.

## Sankhla Vinyl Pvt. Ltd.

#75/2, 2<sup>nd</sup> Floor, Chaitra Court, Above Giria's Electronics Showroom,  
Vani Vilas Road, Basavanagudi, Bengaluru 560 004, India  
Mob: +91-99809 61025 | Email: cmho@sankhlapolymers.com