

## TECHNICAL INFORMATION



May 2009

### HFPE 031/HD

#### THERMOPLASTIC HIGH DENSITY POLYETHYLENE COMPOUND FOR WIRE AND CABLE INSULATION & JACKETING

##### Description

HFPE 031/HD is a polyethylene and halogen free compound specially designed for those applications requiring superior electrical properties.

It can be used as primary insulation for signal and control cables, and is also suitable as outer skin in foam-skin construction.

The properties of this compound comply with the requirements of ASTM D1248, type II, class A category 5, grade E4, D5.

Property	Test method	Unit	Typical Value
Density	ISO 1183	gr/cc	0.949
Hardness at 15"	ISO 868	Shore D	57
Tensile strength at break	ISO 527	N/mm <sup>2</sup>	> 18
Elongation at break	ISO 527	%	> 400
Melt Flow Index (2,16Kg at 190°C)	ISO 1133	gr/10 min	0.9
Volume Resistivity 20°C (Alternating Polarity Method)	ASTM D257 Electrodes	Ωcm	> 1 x 10 <sup>16</sup>

The typical values reported in the table have been obtained from measurements made on extruded samples or pressed plates.

##### Processing

This thermoplastic compound has been formulated for an easy processing, and optimal output can be generally achieved on extruders with  $L \geq 20D$  using a temperature profile between 180°C and 240°C.

##### Packaging

HFPE 031/HD is available in 20 Kg PE bags, big bags or octabins of 1000 Kg.  
Our technical service is at your disposal, for further information and assistance.

[www.fainplast.com](http://www.fainplast.com)

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