

## TECHNICAL INFORMATION



September 2009

### HFPE 027/M-UV NERO

BLACK THERMOPLASTIC MEDIUM DENSITY POLYETHYLENE COMPOUND  
FOR WIRE AND CABLE JACKETING

#### Description

HFPE 027/M-UV NERO is a polyethylene and halogen free compound, containing a well dispersed 2.5% carbon black, which guarantees excellent weathering & UV resistance.

The properties of this compound comply with the requirements of ASTM D1248, type *II*, class *C* category 4, grade *W6*.

#### Technical characteristics of compound:

Property	Test method	Unit	Typical Value
Density	ISO 1183	gr/cc	0.945
Hardness at 15"	ISO 868	Shore D	52
Tensile strength at break (v = 50 mm/min)	ISO 527	N/mm <sup>2</sup>	> 15
Elongation at break (v = 50 mm/min)	ISO 527	%	> 400
Melt Flow Index (2.16Kg AT 190°C)	ISO 1133	gr/10 min	0.70
Volume Resistivity 20°C (Alternating Polarity Method)	ASTM D257 Electrodes	Ωcm	> 1 x 10 <sup>15</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  $L \geq 24D$  using a temperature profile between 180°C and 230°C.

#### Packaging

HFPE 027/M-UV NERO 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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