

## TECHNICAL INFORMATION



October 2009

## ETHYLPLUS 613 HPE

THERMOPLASTIC HIGH DENSITY POLYETHYLENE COMPOUND  
FOR CELLULAR INSULATION OF COMMUNICATION CABLES

### Description

Ethylplus 613 HPE is a polyethylene and halogen free compound suitable for foam insulation produced by the gas-injection process.

The properties of this compound comply with the requirements of ASTM D1248, type *III*, class *A* category *3*.

### Technical characteristics of the compound in the solid form before expansion:

Property	Test method	Unit	Typical Value
Density	ISO 1183	gr/cc	0.948
Hardness at 15"	ISO 868	Shore D	56
Tensile strength at break (v = 50 mm/min)	ISO 527	N/mm <sup>2</sup>	> 18
Elongation at break (v = 50 mm/min)	ISO 527	%	> 300
Melt Flow Index (5Kg at 140°C)	ISO 1133	gr/10 min	6.8
Volume Resistivity 20°C (Alternating Polarity Method)	ASTM D257 Electrodes	Ωcm	> 2 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 set between 160°C and 210°C.

### Packaging

Ethylplus 613 HPE 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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