

TECHNICAL INFORMATION



May 2009

HFPE 026/2E

THERMOPLASTIC HIGH DENSITY POLYETHYLENE COMPOUND FOR CELLULAR INSULATION OF COMMUNICATION CABLES

Description

HFPE 026/2E is a polyethylene and halogen free compound containing a chemical blowing agent, which ensure a consistent and fine foam structure.

However this depend on the processing parameters and the equipment design adopted.

The properties of this compound comply with the requirements of ASTM D1248, type *III*, class *A* category *4*.

Technical characteristics of compound not expanded:

Property	Test method	Unit	Typical Value
Density	ISO 1183	gr/cc	0.947
Hardness at 15"	ISO 868	Shore D	56
Tensile strength at break (v = 50 mm/min)	ISO 527	N/mm ²	> 24
Elongation at break (v = 50 mm/min)	ISO 527	%	> 600
Melt Flow Index (5Kg at 140°C)	ISO 1133	gr/10 min	0.76
Volume Resistivity 20°C (Alternating Polarity Method)	ASTM D257 Electrodes	Ωcm	> 1 x 10 ¹⁶

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

HFPE 026/2E 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.

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