

TECHNICAL INFORMATION



ETHYLPLUS 613HGI

December 2023

THERMOPLASTIC HIGH DENSITY POLYETHYLENE COMPOUND FOR CELLULAR INSULATION OF COMMUNICATION CABLES

Description

Ethylplus 613 HGI 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	g/cm ³	0.950
Hardness at 15"	ISO 868	Shore D	56
Tensile strength (v = 250 mm/min)	ISO 527	N/mm ²	> 18.0
Elongation at break (v = 250 mm/min)	ISO 527	%	> 300
Melt Flow Index (140 °C / 5 Kg)	ISO 1133	g/10 min	5.5
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω·cm	> 2 · 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 ≥ 20D using a temperature profile set between 180 °C and 210 °C.

Packaging

Available in 20 Kg PE bags, big bags or oktabin of 1000 Kg.

Our technical service is at your disposal, for further information and assistance.

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