TECHNICAL INFORMATION

ETHYLPLUS 615MD

April 2014

THERMOPLASTIC MEDIUM DENSITY POLYETHYLENE COMPOUND
FOR WIRE AND CABLE INSULATION

Description

Ethylplus 615MD 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.

The properties of this compound comply with the requirements of ASTM D1248, type II, class A category 3, grade E4 & D5 and Cenelec HD 624.3 S1, L/MD Solid e ISO 1872-PE, K HKN, 27-D003.

Technical characteristics

Property	Test method	Unit	Typical Value
Density	ISO 1183	g/cm^3	**0.932**
Hardness at 15"	ISO 868	Shore D	**48**
Tensile strength (v = 250 mm/min)	ISO 527	N/mm^2	**> 12.5**
Elongation at break (v = 250 mm/min)	ISO 527	%	**> 400**
Melt Flow Index (190 °C / 2.16 Kg)	ISO 1133	g/10 min	**0.26**
Volume Resistivity 20°C *(Alternating Polarity Method)*	ASTM D257 Electrodes	Ω·cm	**>3 · 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 between 180°C and 240°C.

Packaging

Available in 20 Kg PE bags, big bags or oktabins of 1000 Kg.
Our technical service is at your disposal, for further information and assistance.

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