

A close-up, angled view of a cable's cross-section. From top to bottom, it shows a copper conductor, a white insulation layer, a braided metal shield, and a blue outer sheath. The background is a light blue with a large white hexagonal graphic element.

POLYETHYLENE FOR CABLES

Solid and expandable Polyethelene based compounds for production of insulation, dielectric or black sheathing. Products with very high purity and quality consistency to overcome the limits of similar products available on the market.

Solid Insulations

Properties	Test method	Unit	Ethylplus 600	Ethylplus 615 MD	Ethylplus 627 HD
Density	ISO 1183	g/cm ³	0,923	0,932	0,950
Hardness at 15°	ISO 868	Shore D	45	48	57
Tensile strength at break (v = 250 mm/min)	ISO 527	N/mm ²	>12	>12,5	>18
Elongation at break (v = 250 mm/min)	ISO 527	%	>400	>450	>400
Melt Flow Index (2,16Kg at 190°C)	ISO 1133	g/10 min	0,5	0,26	0,9
Volume Resistivity 20°C (Alternating Polarity Method)	ASTM D257 Electrodes	Ωcm	> 1 x 10 ¹⁶	> 3 x 10 ¹⁶	> 1 x 10 ¹⁶
Description			Solid LDPE for insulation	Solid MDPE for insulation	Solid HDPE for insulation

Foam Insulations

Properties	Test method	Unit	Ethylplus 611 LE	Ethylplus 613 HGI /4
Density	ISO 1183	g/cm ³	0,928	0,948
Hardness at 15°	ISO 868	Shore D	44	56
Tensile strength at break (v = 250 mm/min)	ISO 527	N/mm ²	>12	>18
Elongation at break (v = 250 mm/min)	ISO 527	%	>350	>300
Melt Flow Index (5 Kg at 140°C)	ISO 1133	g/10 min	8	6
Volume Resistivity 20°C (Alternating Polarity Method)	ASTM D257 Electrodes	s Ωcm	> 1 x 10 ¹⁶	> 2 x 10 ¹⁶
Description			Chem. exp. LDPE for dielectric	Gas inj. exp. HDPE for dielectric

Solid Sheathing

Properties	Test method	Unit	Ethylplus 619 LD	Ethylplus 627 HD
Density	ISO 1183	g/cm ³	0,933	0,950
Hardness at 15°	ISO 868	Shore D	46	57
Tensile strength at break (v = 250 mm/min)	ISO 527	N/mm ²	>15	>18
Elongation at break (v = 250 mm/min)	ISO 527	%	>300	>400
Melt Flow Index (2,16Kg at 190°C)	ISO 1133	g/10 min	0,35	0,9
Volume Resistivity 20°C (Alternating Polarity Method)	ASTM D257 Electrodes	s Ωcm	> 5 x 10 ¹⁵	> 5 x 10 ¹⁵
ESCR (IGEPAL 10% at 50°C)	IEC 60811-4-1/B (f0)	h	-	>100
Description			Solid LDPE for sheathing	Solid HDPE for sheathing

* Test made with 5 Kg.at 190°C

Notes

Ethylplus is a range of polyethelene based compounds specially designed for those applications requiring superior thermo-mechanical properties, outstanding heat resistance and high electrical properties.

Packaging

Ethylplus is sold in 20 Kg. Plastic sacks on pallet or Kg. 1000 Oktabins