



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 × 10 ¹⁶	> 3 × 10 ¹⁶	> 1 × 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 × 10 ¹⁶	> 2 × 10 ¹⁶
Description			Chem. exp. LDPE for dielectric	Gas inj. exp. HDPE for dielectric

Solid Sheathing

Properties	Test method	Unit	Ethylplus 619 LD	Ethylplus 629MD	Ethylplus 627 HD
Density	ISO 1183	g/cm ³	0,933	0,939	0,950
Hardness at 15°	ISO 868	Shore D	46	52	57
Tensile strength at break (v = 250 mm/min)	ISO 527	N/mm ²	>15	>16	>18
Elongation at break (v = 250 mm/min)	ISO 527	%	>300	>500	>400
Melt Flow Index (2,16Kg at 190°C)	ISO 1133	g/10 min	0,35	0,8*	0,9
Volume Resistivity 20°C (Alternating Polarity Method)	ASTM D257 Electrodes	s Ωcm	> 5 × 10 ¹⁵	> 5 × 10 ¹⁵	> 5 × 10 ¹⁵
ESCR (IGEPAL 10% at 50°C)	IEC 60811-4-1/B (f0)	h	-	>1000	>100
Description			Solid LDPE for sheathing	Solid MDPE for sheathing	Solid HDPE for sheathing

* Test made with 5 Kg.at 190°C

Notes

Ethylplus is a range of polyethylene 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