

TECHNICAL INFORMATION



PROPYLPLUS 700

September 2023

THERMOPLASTIC POLYPROPYLENE COMPOUND FOR WIRE AND CABLE INSULATION

Description

Propylplus 700 is a polypropylene and halogen free compound specially designed for those applications requiring superior thermo-mechanical properties, outstanding heat resistance and electrical properties with the presence of a mix of antioxidants and a metal deactivator. It can be used as primary insulation on computer, telephone and instrument wires. The properties of this compound comply with the requirements of VDE 0250, Part 215, type 9YI2 and CEI-EN 60811-4-2.

Technical characteristics

Property	Test method	Unit	Typical Value
Density	ISO 1183	g/cm ³	0.90
Hardness at 15"	ISO 868	Shore D	61
Tensile strength (v = 50 mm/min)	ISO 527	N/mm ²	28.0
Elongation at break (v = 50 mm/min)	ISO 527	%	750
Pressure test at 120 °C	IEC 60811	%	< 50
Oxidation Induction Time(210 °C-Al)	IEC 60811-4-2	min	> 30
Melt Flow Index (230 °C / 2.16 Kg)	ISO 1133	g/10 min	4.0
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω·cm	> 1 · 10 ¹⁷
Dielectric Constant (1 MHz)			2.28

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 between 180 °C and 240 °C.

It is advisable to use a PP or PE based master color at not more than 2% by weight, to maintain high mechanical characteristics on the finished product before and after any accelerated ageing tests.

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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