

TECHNICAL INFORMATION



PROPYLPLUS 707E

November 2019

EXPANDABLE POLYPROPYLENE COMPOUND FOR CABLE INSULATION

Description

Propylplus 707E is a polypropylene and halogen free compound additivated with a mix of antioxidants, metal deactivator and chemical expanding agent. It's specially designed for the production of cellular insulation in cable applications.

Technical characteristics of solid compound before expansion:

Property	Test method	Unit	Typical Value
Density	ISO 1183	g/cm ³	0.90
Hardness at 15"	ISO 868	Shore D	63
Tensile strength ($v = 50$ mm/min)	ISO 527	N/mm ²	25.0
Elongation at break ($v = 50$ mm/min)	ISO 527	%	700
Melt Flow Index (180 °C / 5 Kg)	ISO 1133	g/10 min	8.0
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	$\Omega \cdot \text{cm}$	$>1 \cdot 10^{16}$
Dielectric Constant (1 MHz)			2.27

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.

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.

FAINPLAST SRL

Zona Ind.le Campolungo II fase
63100 Ascoli Piceno (AP) – Italia
tel +39 0736 403605, fax +39 0736 403807
info@fainplast.com, www.fainplast.com



The description and figures contained herein are provided to customers as a general information for the purposes the product is intended for. These reflect FAINPLAST knowledge at the time of publication. By the information contained herein FAINPLAST won't release any warranty and/or give any suggestion on the use of the product, or grant any franchise on existing patents. The end-user, transformer shall always check the specific suitability of the product for the purposes it is intended for and its compatibility with process specifications. This document does not form part of any contract with customer.