

Item Description Item ID

PE-LD extrusion compound Electrically conductive Typical end product Applications

PRE-ELEC® PE 1271 PE1271

> Blown film Layflat tubing

PRE-ELEC® PE 1271 is a carbon black filled conductive thermoplastic compound based on a blend of PE-LD/PE-LLD. In addition to a low electrical resistivity, it has an excellent balance of mechanical properties and is easy to extrude and blow mold.

Special properties	Unit	Value	Method
Volume reciptivity/*	Ω.cm	70	PRE021
Volume resistivity(* Surface resistance(*	Ω	5E+03	IEC 61340-2-3
Surface resistance(75	5E+03	IEC 01340-2-3
General properties	Unit	Value	Method
Specific gravity	g/cm3	1,02	ISO 1183
Melt flow rate at 190°C	g/10 min		ISO 1133
5.0 kg		1,7	
21.6 kg		35	
Mechanical properties	Unit	Value	Method
Tensile strength(*	MPa	24	ISO 527
Yield strength(*	MPa	21	ISO 527
Tensile strain at break(*	%	590	ISO 527
Tensile strain at yield(*	%	13	ISO 527



Item Description Item ID

PRE-ELEC® PE 1271 PF1271

Visit Premix Data Center for more detailed information of our products at www.premixgroup.com/data-center-main

Processing instructions

Extrusion		Unit	Processing range
ZXII GOTOTT	Cylinder temperature profile	°C	160 - 200
	Die temperature profile	°C	190 - 200
	Tool/Roll temperature	°C	70 - 50

Notes

Drying of the product is recommended for 2-3 hours at 80°C prior to use.

Blow ratio should be higher than 1.8 and the use of coarse screen pack is recommended. These parameters are for guidance only. The process parameters should always be optimized for the used equipment. The instructions of the equipment manufacturer should be followed. Also caution should be taken when handling molten material as it is extremely hot and may cause severe burns.

<u>Storage</u>

Product-specific details are mentioned in the notes above. The general minimum shelf life for Premix's product is 3 years with the following conditions: 1) original package is unopened, 2) the storage area and conditions provide protection from direct sunlight and significant changes in storage temperature, 3) the product is pre-dried accordingly before use.

The information in this datasheet represents typical values obtained by us, and shall not be regarded as a product specification. The right to make any changes to the content and appearance of this document is reserved by Premix Oy. We condition that the product will be inspected and qualified by the customer for their process to meet the specific requirements set by application, processing equipment and the end product. The user of this product is held responsible for the evaluation of this product's suitability concerning applied legislation and possible patent infringements. We do not intentionally add or incorporate hazardous substances in our production.

PRE-ELEC® is a registered trademark of Premix.

PE1271-133