

PRE-ELEC[®] PE 18381

PE-LD extrusion compound
Electrically conductive

Applications: Blown film
Tubes

PRE-ELEC[®] PE 18381 is a conductive thermoplastic compound based on LDPE. It has an excellent combination of processability, low resistivity and mechanical properties.

Special properties	Unit	Value	Method
Volume resistivity(*)	Ω.cm	13,5	PRE021
General properties	Unit	Value	Method
Specific gravity	g/cm ³	1,05	ISO 1183
Melt flow rate at 190°C 5.0 kg	g/10 min	0,5	ISO 1133
Mechanical properties	Unit	Value	Method
Tensile strength(*)	MPa	29,7	ISO 527
Tensile strain at break(*)	%	778	ISO 527
Tensile modulus(*)	MPa	170	ISO 527
Hardness, Shore D	-	45	ISO 868

MFR is measured from granulates

Test specimen: injection moulded rod; Thickness: 10 mm, width: 4 mm

*) extruded tape; Thickness 600-800 µm

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This product is REACH and RoHS compliant

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Processing instructions

	Unit	Processing range	
Extrusion	Cylinder temperature profile	°C	170 - 210
	Die temperature profile	°C	170 - 200
	Tool/Roll temperature	°C	50 - 70

Notes

Drying of the product is recommended for 2-4 hours at 60°C prior to use.

Processing conditions as with filled PE-LD. 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. Caution should be taken when handling molten material as it is extremely hot and may cause severe burns.

Storage

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.

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www.premixgroup.com/contact

precise@premixon.com

www.premixgroup.com