



PE-LLD concentrate Electrically conductive Applications:

Blown film Layflat tubing

PRE-ELEC[®] PE 17840 is a conductive thermoplastic polyolefin concentrate based on LLDPE. Conductivity is achieved by using special conductive carbon black. It contains a high concentration of carbon black and has been developed to be used as a masterbatch. Dilution rate of 65% can be achieved depending on the required conductivity level. The actual amount should always be tested as it also depends on the processing parameters.

The values with the exception of MFR are measured from dilution: 40% LDPE, MFI 0,25 (190°C/2,16 kg)

Special properties	Unit	Value	Method
Volume resistivity(*	Ω.cm	0,7 (100% PE17840)	PRE021
General properties	Unit	Value	Method
Specific gravity Melt flow rate at 230°C	g/cm3 g/10 min	1,20	ISO 1183 ISO 1133
21.6 kg		4,5	
Mechanical properties	Unit	Value	Method
Tensile strength(*	MPa	26	ISO 527
Yield strength(*	MPa	22	ISO 527
Tensile strain at break(*	%	500	ISO 527
Tensile strain at yield(*	%	45	ISO 527

MFR is measured from granulates Test specimen: injection moulded rod; Thickness: 10 mm, width: 4 mm

*) blown film: Thickness 60 μm



PRE-ELEC[®] PE 17840

This product is REACH and RoHS compliant

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Processing instructions			
		Unit	Processing range
Extrusion			
	Cylinder temperature profile	°C	200 - 220
	Die temperature profile	°C	210 - 220
	Tool/Roll temperature	°C	90 - 60

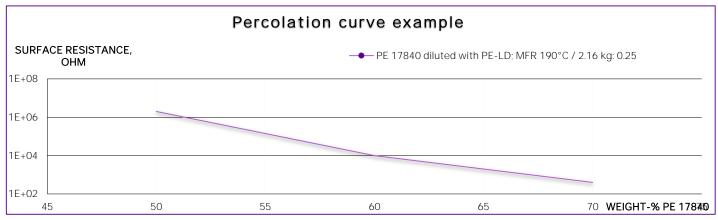
Notes

Drying of the product is recommended for 2-4 hours at 80-90°C prior to use.

Processing conditions as with filled PE-LLD. 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.



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PE 17840-120

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