

# Item Description Item ID

PRE-ELEC® TPE 18416 TPE18416

TPE extrusion compound Electrically conductive Flexible Typical end product Applications

Safety edges Profiles

PRE-ELEC® TPE 18416 is a conductive thermoplastic compound based on SEBS. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity, it has an excellent balance of mechanical properties and is easy to extrude

Special properties	Unit	Value	Method
Volume resistivity(*	$\Omega.cm$	3,5	PRE021
Surface resistance(*	Ω	4E+02	IEC 61340-2-3
General properties	Unit	Value	Method
Melt flow rate at 190°C	g/10 min		ISO 1133
21.6 kg		9,8	
Mechanical properties	Unit	Value	Method
Mechanical properties	OTIIL	value	Methou
Tensile strength(*	MPa	7,1	ISO 527
Tensile strain at break(*	%	547	ISO 527
Tensile modulus(*	MPa	94	ISO 527
Hardness, Shore A	-	87	ISO 868
Hardness, Shore D	-	33	ISO 868



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Processing instructions

Extrusion		Unit	Processing range
EXTRAGION	Cylinder temperature profile	°C	180 - 210
	Die temperature profile	°C	180 - 200
	Tool/Roll temperature	°C	50 - 70

### Notes

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

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.

#### <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.

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