

Item Description

Item ID

PRE-ELEC[®] TPE 1502
TPE1502

TPE extrusion compound
Electrically conductive
Flexible

Typical end product
Applications

Gaskets, grips
Profiles
Technical parts

PRE-ELEC[®] TPE 1502 is a conductive thermoplastic compound based on a thermoplastic elastomer (TPE). Conductivity is achieved by using a special conductive carbon black. In addition to a low electrical resistivity it has retained the excellent mechanical properties of the base elastomer.

Special properties	Unit	Value	Method
Volume resistivity	Ω.cm	15	PRE021
Surface resistance	Ω	9E+02	IEC 61340-2-3
General properties	Unit	Value	Method
Specific gravity	g/cm ³	1,08	ISO 1183
Melt flow rate at 190°C	g/10 min		ISO 1133
10.0 kg		4	
Mould shrinkage	%	2,1	ISO 294-4
Mechanical properties	Unit	Value	Method
Tensile strength	MPa	4,2	ISO 527
Tensile strain at break	%	650	ISO 527
Tensile stress at 100%	MPa	1,9	ISO 527
Tensile stress at 200%	MPa	2,5	ISO 527
Tensile stress at 300%	MPa	3,1	ISO 527
Hardness, Shore A	-	65	ISO 868

MFR is measured from granulates

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

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Processing instructions

	Unit	Processing range
Extrusion		
Cylinder temperature profile	°C	170 - 210
Die temperature profile	°C	205 - 210
Tool/Roll temperature	°C	60 - 50

Notes

Drying of the product is recommended for 1-2 hours at 60-65°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.

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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TPE1502-148