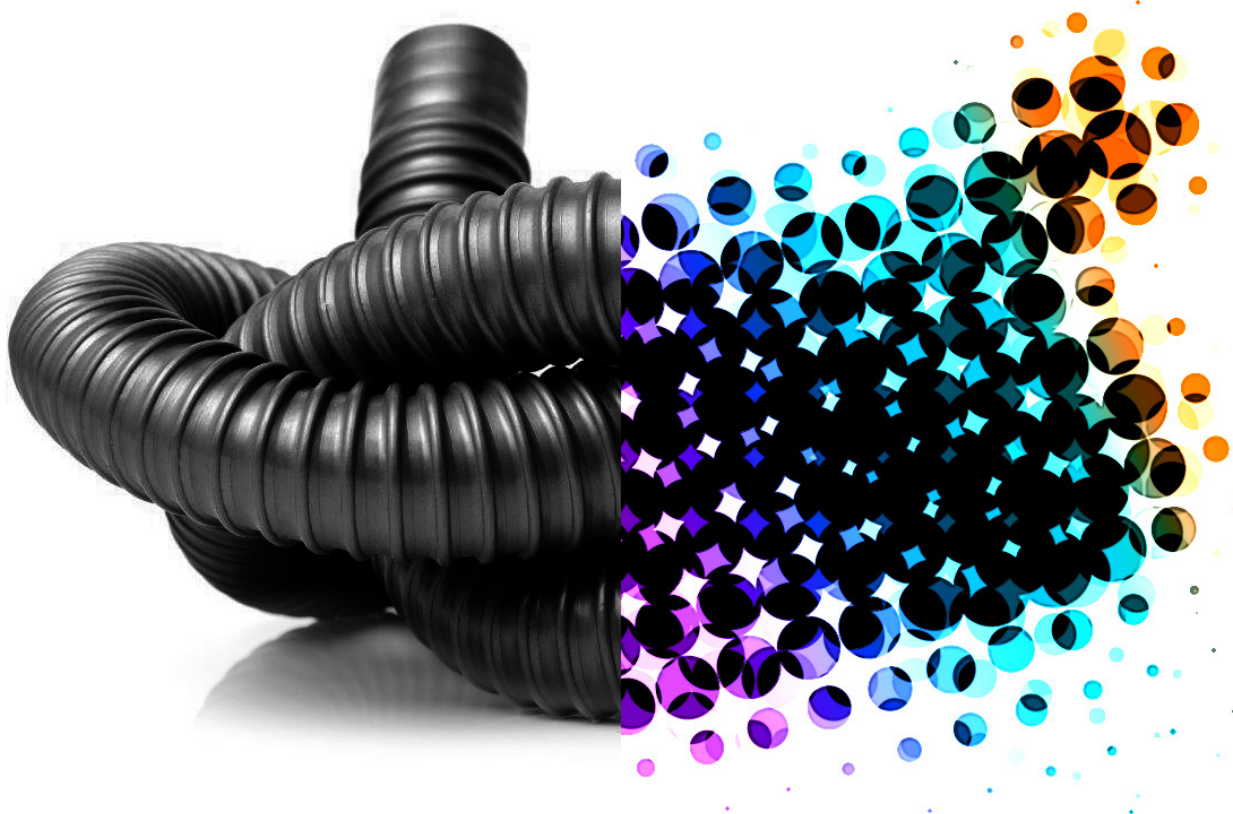


ELECTRICALLY CONDUCTIVE COMPOUNDS

TPU – FLEXIBLE PLASTIC FOR HIGHEST DEMANDS

PREMIX



Whenever properties like abrasion resistance and durability combined with soft surface are demanded, TPU will do the job. In Premix's PRE-ELEC® TPU compounds the unique properties of TPU are combined with high electrical conductivity.

PRE-ELEC® TPU compounds step forward when normal insulative TPU materials are not applicable due to the risk of accumulation of static electricity and uncontrolled static discharges. Groundable PRE-ELEC® TPU compounds find their use in controlling static electricity in electronics manufacturing (ESD) and explosive environments (ATEX).

In PRE-ELEC® TPU compounds high electrical conductivity is combined with excellent mechanical properties:

- High abrasion resistance
- Very good flexibility even at low temperatures
- Soft material with great mechanical properties (e.g. flex life)
- Easy to process



The excellent and easy processability makes these grades perfectly suitable for flexible hoses, sheets or injection molded parts with highest requirements.

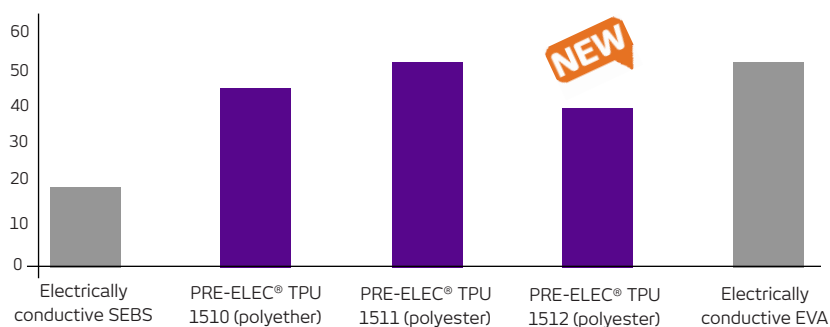
PROPERTIES OF ELECTRICALLY CONDUCTIVE PRE-ELEC® TPU COMPOUNDS

COMPARISON OF POLYESTER AND POLYETHER BASED TPU'S

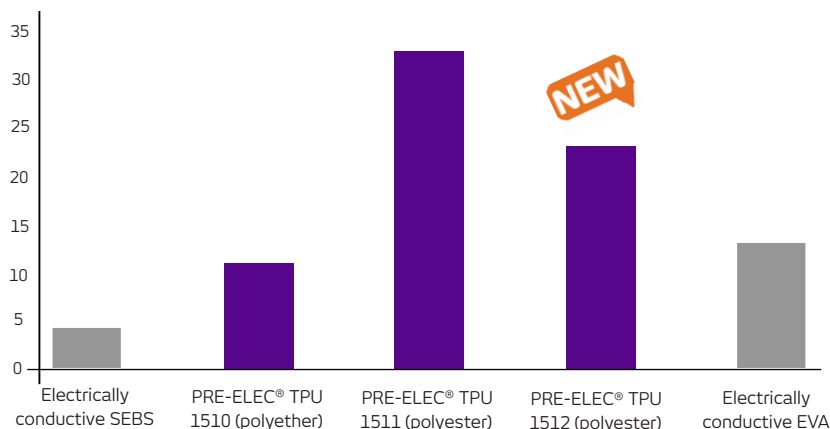
	Polyester based TPU	Polyether based TPU
Mechanical properties	● ●	●
Oil, grease and solvent resistance	● ●	-
Abrasion resistance	● ●	○
Hydrolysis resistance	- -	● ●
Resistance to microbes, fungi, etc.	- -	●
High-temperature resistance	●	-
Low temperature flexibility	○	● ●

● ● Excellent ● Good ○ Acceptable - Poor - - Very poor

SHORE D HARDNESS



TENSILE STRENGTH (MPa)



PRE-ELEC® TPU compounds have high strength despite the relatively low hardness.

Download product data sheets from www.premixgroup.com.

In case you are looking for electrically conductive TPU with special features do not hesitate to contact us. We are glad to tailor a compound meeting your exact demands.

PREMIX OY (HEAD OFFICE)

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