



## Electrically conductive

### Complete range of equipment for explosion protection

emtechnik is able to offer its extensive assortment of connectors, fittings and flexible tubes in the electrically conductive material variants PP-EL, PVDF-EL und PTFE-EL.

- Surface resistance of  $<10^3 \Omega$  and  $<10^2 \Omega$   
=> reliable protection against static charges
- PVDF-EL, PTFE-EL: UV-impervious and UV-resistant
- PP-EL: Blocks UV radiation
- Excellent chemical resistance

Most thermoplastic polymers are normally electrical insulators. Using meticulously developed recipes for special plastics, however, the electrical properties can be modified from insulating to conducting. This provides protection against an electrostatic charge. Otherwise a single spark could have catastrophic consequences.

To prevent electrostatic charges from accumulating, the high-performance materials PP, PVDF and PTFE are equipped with electrically conducting particles. This gives them a very low surface resistance of less than  $<10^3 \Omega$  or  $<10^2 \Omega$ .

For all media that are sensitive to UV radiation, it is important for the materials to be dyed solid black to block all UV light. PVDF-EL and PTFE-EL materials are also UV-resistant.

Our products in these materials thus ensure maximum safety combined with impressive chemical resistance properties.