ELECTRICALLY CONDUCTIVE PLASTICS
PRE-ELEC® PE COMPOUNDS FOR AUTOMOTIVE FUEL SYSTEMS

Refueling generates static electricity in fuel filler system. It is caused by the friction between flowing gasoline and FFS’s plastic surface. This static electricity might lead to gasoline ignition.

With Premix’s electrically conductive PRE-ELEC® PE compounds the FFS can be grounded and the risks of electrostatic charging are eliminated.

Ensure safe fuel handling by choosing Premix’s electrically conductive HDPE compounds for fuel filler systems (FFS); heads, necks and pipes.

PRE-ELEC® PE compounds for automotive fuel systems bear unique advantages compared to competing solutions; clearly improved material flow for blow molding process combined with fuel resistance and high electrically conductivity.
FUEL FILLER HEADS AND NECKS

Carbon black filled PRE-ELEC® TP 11270 has improved fuel permeation properties whereas PRE-ELEC® TP 14839 is cost-effective solution for fuel filler necks.

Both materials have excellent ESCR (Environmental Stress Cracking) properties are easy to process due to improved melt flow. HDPE base polymer ensures seamless welding to fuel filler pipe.

Glass fiber reinforced electrically conductive PRE-ELEC® TP 14708GF is right choice for parts exposed to mechanical stress during tank filling. It obtains strong mechanical properties and brings cost savings when replacing more expensive technical plastics e.g. polyamide.

FUEL FILLER PIPES

Carbon black filled PRE-ELEC® TP 11270 is optimal material inner layers of HDPE multi-layer filler pipes.

It has excellent mechanical properties including ESCR combined with easy material flow in blow molding process. This leads to mechanically resistant, smooth and even inner pipe surface with less fuel turbulence.

PRE-ELEC® PE COMPOUNDS FOR FUEL FILLER SYSTEMS

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<th>PRE-ELEC® TP 11270</th>
<th>PRE-ELEC® TP 14839</th>
<th>PRE-ELEC® TP 14708GF</th>
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<tbody>
<tr>
<td>Fuel filler heads and necks injection molding</td>
<td>✓</td>
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<td>Fuel filler pipes blow molding</td>
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With over 30 years of experience, Premix is one of World’s leading manufacturers of electrically conductive plastics and fuel filler applications.

Premix offers electrically conductive PRE-ELEC® compounds and concentrates and static dissipative PRE-ELEC® ESD compounds for electrostatic discharge (ESD), explosive atmospheres (ATEX), liquid level detection and metal replacement applications. The products are utilized in a wide range of industries, including automotive, chemical, electronics, diagnostics and mining.

In case you are looking for electrically conductive plastic compound with special features do not hesitate to contact us at Premix - we are glad to tailor a compound meeting your exact demands:

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