Halar® 6914
ethylene chlorotrifluoroethylene copolymer

Halar® 6914 is a gray, semi-crystalline melt processable fluorinated primer. It is designed to be applied directly to substrates by electrostatic or fluidized bed techniques. In particular Halar® 6914 is recommended for use as a primer on aluminum large surface area parts in protection and anti-corrosion applications.

Halar® 6914 provides optimum and rapid bonding and can be used to maximize topcoat adhesion performance in high build coatings specifically. It also exhibits very good thermal and color stability, outstanding permeation and flame resistance and very good chemical resistance.

Main features of Halar® 6914 include:
- Gray color
- Very good thermal and color stability
- Optimum and rapid adhesion
- Particularly designed for large surface area parts in aluminum
- Outstanding permeation resistance
- Optimum flame resistance
- Very good chemical resistance

General

Material Status
- Commercial: Active

Availability
- Africa & Middle East
- Asia Pacific
- Europe
- Latin America
- North America

Features
- Bondability
- Chemical Resistant
- Corrosion Resistant
- Good Adhesion
- Good Color Stability
- Good Thermal Stability
- Semi Crystalline

Uses
- Bonding
- Coating Applications

Appearance
- Grey

Forms
- Powder

Processing Method
- Coating

Physical

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
<th>Unit</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>1.68</td>
<td>g/cm³</td>
<td>ASTM D3275</td>
</tr>
<tr>
<td>Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)</td>
<td>7.0</td>
<td>g/10 min</td>
<td>ASTM D3275</td>
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<tr>
<td>Average Particle Size ¹</td>
<td>80</td>
<td>µm</td>
<td>ASTM D1921</td>
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</tbody>
</table>

Thermal

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
<th>Unit</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Temperature</td>
<td>225</td>
<td>°C</td>
<td>ASTM D3275</td>
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</tbody>
</table>
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Additional Information

Processing

- Halar® 6914 is intended as a primer material to apply directly to substrates. It can be processed using either conventional electrostatic powder coating or fluidized bed equipment.
- In the case of electrostatic coating the procedure involves substrate preparation, spray coating, baking and cooling. Several passes maybe required to obtain the desired Halar® load and ensure pin-hole free coatings. Alternatively using fluidized bed equipment preheated items can be coated by dipping directly into the fluidized powder followed by baking. The dipping and baking operation can be repeated to achieve multiple coats and build up the desired coating thickness.
- Halar® 6914 can be used neat and without any further formulation. For both techniques, substrate preparation, preheating, coating and baking parameters must all be well controlled to achieve defect free coated items and optimum adhesion.

Storage and Handling

- Halar® melt processable fluropolymer resins can be stored without shelf life issues when kept in a clean and dry area at ambient temperatures. Opened containers should be tightly resealed to prevent any contamination.

Safety and Toxicology

- Before using Halar® melt processable fluropolymer resins consult the product Material Safety Data Sheet and follow all label directions an handling precautions.
- As with all fluoropolymer materials, handling and processing should only be carried out in well ventilated areas. Vapor extractor units should be installed above processing equipment. Fumes must not be inhaled and eye and skin contact ought to be avoided. In case of skin contact wash with soap and water. In case of eye contact flush with water immediately and seek medical help. Do not smoke in areas contaminated with powder, vapour or fumes.
- See Material Safety Data Sheet for detailed advice on waste disposal methods.

Packaging

- Halar® 6914 is packaged in 25kg non returnable drums. Each drum has two bags liner made of polyethylene resin.

Notes

Typical properties: these are not to be construed as specifications.

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Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

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