Halar® 3404DA
ethylene chlorotrifluoroethylene copolymer

Halar® 3404DA is a filled, pearl-white, semicrystalline melt processable fluorinated resin that is designed for electrostatic spray powder coatings and is particularly recommended for use in protection and anti-corrosion applications where food contact compliance is required. Halar® 3404DA may be used in full compliance with the U.S. Federal Food, Drug and Cosmetic Act food additive regulation 21 CFR 177.1380(a)(4). It also meets the requirements of Regulation 1935/2004 EC of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directive 80/590/EEC and 89/109/EEC.

Additionally, Halar® 3404DA coatings show very good surface finish and hardness.

Main features of Halar® 3404DA include:
- Food contact compliance
- Very good chemical resistance
- Very good thermal properties
- Optimum permeation resistance
- Very good surface characteristics
- Very good electric insulating property

General

<table>
<thead>
<tr>
<th>Material Status</th>
<th>Limited Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Availability</td>
<td>Africa &amp; Middle East</td>
</tr>
<tr>
<td>Filler / Reinforcement</td>
<td>Filler</td>
</tr>
</tbody>
</table>

Features

- Chemical Resistant
- Corrosion Resistant
- Food Contact Acceptable
- Good Electrical Properties
- Good Surface Finish
- Good Thermal Stability
- High Hardness
- High Purity
- Semi Crystalline

Uses

- Coating Applications

Agency Ratings

- EC 1935/2004
- FDA 21 CFR 177.1380(a)(4)

Appearance

- White

Forms

- Powder

Processing Method

- Coating

Physical

<table>
<thead>
<tr>
<th>Density</th>
<th>1.68 g/cm³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test method</td>
<td>ASTM D3275</td>
</tr>
<tr>
<td>Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)</td>
<td>2.0 g/10 min</td>
</tr>
<tr>
<td>Test method</td>
<td>ASTM D3275</td>
</tr>
<tr>
<td>Average Particle Size</td>
<td>28 µm</td>
</tr>
<tr>
<td>Test method</td>
<td>Internal Method</td>
</tr>
</tbody>
</table>

Thermal

| Melting Temperature     | 242 °C     |
| Test method             | ASTM D3275 |
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Additional Information
Processing
• Halar® 3404DA can be processed using normal electrostatic powder coating techniques. Generally the procedure involves substrate preparation, spray coating, baking and cooling. Depending on the application further processing can be carried out. Several passes maybe required to obtain the desired Halar load and build up coating thickness.
• Halar® 3404DA can be used neat and without any further formulation. Substrate preparation, gun parameters such as voltage and both oven temperature and time must all be well controlled to achieve defect free coated items.

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, vapor or fumes.
• See Material Safety Data Sheet for detailed advice on waste disposal methods.

Packaging
• Halar® 3404DA 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.
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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