Halar® 6012F
ethylene chlorotrifluoroethylene copolymer

Halar® 6012F is semi-crystalline fluoropolymer designed specifically for rotational molding and lining. Rotomolding is typically used to manufacture articles such as tanks, bottles and vessels whilst rotolining is used to coat pipes, fittings, valves, tanks and vessels.

Main features of Halar® 6012F are:
- Excellent chemical resistance
- Excellent permeation resistance
- Smooth surface finish
- Good flow
- Good thermal stability
- High purity
- Flame retardant

<table>
<thead>
<tr>
<th>General</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Status</td>
</tr>
</tbody>
</table>
| Availability | • Africa & Middle East  
                  • Asia Pacific  
                  • Europe  
                  • Latin America  
                  • North America |
| Features | • Abrasion Resistant  
             • Barrier Resin  
             • Chemical Resistant  
             • Flame Retardant  
             • Good Flow  
             • Good Surface Finish  
             • Good Thermal Stability  
             • High Purity  
             • Non-Stick |
| Uses | • Bottles  
       • Coating Applications  
       • Pipe Coatings  
       • Protective Coatings  
       • Tanks  
       • Valves/Valve Parts  
       • Vessels |
| Forms | • Powder |
| Processing Method | • Rotational Molding  
                    • Roto Lining |

<table>
<thead>
<tr>
<th>Physical</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>6.0 to 9.0</td>
<td>g/10 min</td>
<td>ASTM D3275</td>
</tr>
<tr>
<td>Particle Size - Nominal Value</td>
<td>300 to 500</td>
<td>µm</td>
<td>ASTM D1921-63</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Thermal</th>
<th>Typical Value</th>
<th>Unit</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Temperature</td>
<td>220 to 227</td>
<td>°C</td>
<td>ASTM D3275</td>
</tr>
</tbody>
</table>
Halar® 6012F
ethylene chlorotrifluoroethylene copolymer

**Additional Information**

**Processing**
- Halar® 6012F can be processed using normal rotomolding/rotolining techniques. In the case of rotomolding Halar® 6012F is initially introduced into a mold. This is then heated in an oven and maintained under rotation to achieve the desired mold shape. Finally, mold extraction and cooling are carried out to obtain the final item. In rotolining, the resin is directly fed inside the part to be lined. As in the case of rotomoldings, the part is then heated, maintained under rotation and finally cooled to obtain the lined article.

- Halar® 6012F can be used neat and without any further formulation. Substrate preparation, Halar® load, rotation parameters, oven temperature and time must all be well controlled to achieve defect free items.

**Storage and Handling**
- Halar® melt processable fluoropolymer 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 dust contamination.

**Safety and Toxicology**
- Before using Halar® melt processable fluoropolymer resins consult the product Material Safety Data Sheet and follow all label directions and handling precautions. As with all fluoropolymer materials, handling and processing should only be carried out in well ventilated areas. Vapour 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® 6012F is packaged in 25 kg non-returnable drums. Each drum has two bag liners made of polyethylene resin.

**Additional Technical Information**
- For Material Safety Data Sheet or additional technical information consult your Solvay representative or the website: www.solvayspecialtypolymers.com

**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.

Neither Solvay Specialty Polymers nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this product, related information or its use. Some applications of which Solvay’s products may be proposed to be used are regulated or restricted by applicable laws and regulations or by national or international standards and in some cases by Solvay’s recommendation, including applications of food/feed, water treatment, medical, pharmaceuticals, and personal care. Only products designated as part of the Solviva® family of biomaterials may be considered as candidates for use in implantable medical devices. The user alone must finally determine suitability of any information or products for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infringed. The information and the products are for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right.

All trademarks and registered trademarks are property of the companies that comprise the Solvay Group or their respective owners.

© 2019 Solvay Specialty Polymers. All rights reserved.