

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

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Barrier Resin • Flame Retardant • Good Abrasion Resistance	• Good Chemical Resistance • 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	

Physical

	Typical Value	Unit	Test method
Density	1.68	g/cm ³	ASTM D3275
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	6.0 to 9.0	g/10 min	ASTM D3275
Particle Size - Nominal Value	300 to 500	µm	ASTM D1921-63

Thermal

	Typical Value	Unit	Test method
Melting Temperature	220 to 227	°C	ASTM D3275

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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
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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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