

Halar® 6012F

Ethylene Chlorotrifluoroethylene Copolymer

Solvay Specialty Polymers

Message:

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 Information			
Features	High purity		
	Antistatic coating		
	Good liquidity		
	Good wear resistance		
	Good chemical resistance		
	Thermal stability, good		
	No stickiness		
	Excellent appearance		
	Barrier resin		
	Flame retardancy		
Uses	Protective coating		
	Valve/valve components		
	Pipeline coating		
	Bottle		
	Container		
	Water tank		
	Coating application		
Forms	Powder		
Processing Method	Rotational lining		
	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	1.68	g/cm ³	ASTM D3275
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	6.0 - 9.0	g/10 min	ASTM D3275

Particle size-Nominal value	300 - 500	μm	ASTM D1921-63
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	220 - 227	°C	ASTM D3275
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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