

Halar® 6014

chlorotrifluoroethylene polyethylene

Halar 6014 is a clear, semi-crystalline melt processable fluorinated resin. It is designed for electrostatic powder coatings and is particularly recommended for use as a topcoat in protection and anti-corrosion applications.

Halar 6014 exhibits very good chemical, electrical and thermal properties. It is exceptionally pure, easily processed and has optimum permeation and flame resistance. Additionally Halar 6014 coatings show very good surface finish and hardness.

Main features of Halar 6014 include:

- Very good chemical resistance
- Very good thermal properties
- Optimum permeation resistance
- Outstanding flame resistance
- Very good surface characteristics
- Purity

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	• South America
Features	• Flame Retardant • Good Chemical Resistance • Good Corrosion Resistance	• Good Electrical Properties • Good Processability • Good Surface Finish	• Good Thermal Stability • High Purity • Semi Crystalline
Uses	• Coating Applications		
Appearance	• Clear/Transparent		
Forms	• Powder		
Processing Method	• Coating		

Physical

	Typical Value	Unit	Test Method
Density	1.65 to 1.71	g/cm ³	ASTM D3275
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	9.0 to 15	g/10 min	ASTM D3275
Average Particle Size ¹	3.1	mil	ASTM D1921-63

Thermal

	Typical Value	Unit	Test Method
Melting Temperature	428 to 441	°F	ASTM D3275

Additional Information

Processing

- Halar 6014 is intended as a topcoat material to apply to primed substrates. It 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 6014 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 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 6014 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.

¹ Method C

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For assistance with an emergency involving this product, such as spill, leak, fire or explosion, call day or night:

Emergency Health Information

USA +1.800.621.4590

International +1.770.772.8577

Emergency Spill Information

USA +1.800.424.9300

+1.703.527.3887 (CHEMTREC)

Europe +44.208.762.8322 (CARECHEM)

China +86.10.5100.3039

All other Asian countries +65.633.44.177

For additional product information, technical assistance and Material Safety Data Sheets (MSDS), call:

USA + 1.800.621.4557 / +1.770.772.8760

Europe +49.211.5135.9000

Japan +81.3.5425.4300

China & Southeast Asia +86.21.5080.5080

Material Safety Data Sheets (MSDS) for products of Solvay Specialty Polymers are available upon request from your sales representative or by emailing us at specialtypolymers@solvay.com. Always consult the appropriate MSDS before using any of our products.

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