

Halar® 6014F

ethylene chlorotrifluoroethylene copolymer

Halar® 6014F 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® 6014F exhibits very good chemical, electrical and thermal properties. It is exceptionally pure, easily processed and has optimum permeation and flame resistance. Additionally Halar® 6014F coatings can be used to achieve higher coating thickness compared to Halar® 6014 with very good surface finish and hardness.

Main features of Halar® 6014F include:

- High build up
- 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 | • Latin America • North America |
| Features | • Chemical Resistant • Corrosion Resistant • Good Electrical Properties • Good Processability • Good Surface Finish | • Good Thermal Stability • High Hardness • High Purity • Semi Crystalline |
| Uses | • Coating Applications | |
| Appearance | • Clear/Transparent | |
| Forms | • Powder | |
| Processing Method | • Coating | |

| Physical | Typical Value | Unit | Test method |
|---|---------------|-------------------|-------------|
| Density | 1.68 | g/cm ³ | ASTM D3275 |
| Melt Mass-Flow Rate (MFR) (275°C/2.16 kg) | 7.0 | g/10 min | ASTM D3275 |
| Average Particle Size ¹ | 80 | µm | ASTM D1921 |

| Thermal | Typical Value | Unit | Test method |
|---------------------|---------------|------|-------------|
| Melting Temperature | 225 | °C | ASTM D3275 |

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Additional Information

Processing

- Halar® 6014F 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 may be required to obtain the desired Halar load and build up coating thickness.
- Halar® 6014F 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 any 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® 6014F is packaged in 25kg non returnable drums. Each drum has two bags liner made of polyethylene resin.
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Notes

Typical properties: these are not to be construed as specifications.

¹ Method C

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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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