# Halar® 7518

## ethylene chlorotrifluoroethylene copolymer

Halar® 7518 is a filled, black, semi-crystalline melt processable fluorinated resin. It is designed for electrostatic powder coatings and is particularly recommended for use in fluoropolymer coated duct applications.

Halar® 7518 exhibits very good chemical and thermal properties. It easily processed and has optimum permeation and flame resistance.

Main features of Halar® 7518 include:

- Black color
- Primerless adhesion
- Very good chemical resistance
- Optimum permeation resistance
- Very good thermal properties
- Outstanding flame resistance

| General | | |
|---|---|---|
| Material Status | • Commercial: Active | |
| Availability | • Africa & Middle East<br>• Asia Pacific<br>• Europe | • Latin America<br>• North America |
| Features | • Chemical Resistant<br>• Corrosion Resistant<br>• Good Processability | • Good Surface Finish<br>• Good Thermal Stability |
| Uses | • Coating Applications | |
| Appearance | • Black | |
| Forms | • Powder | |
| Processing Method | • Coating | |

| Physical | Typical Value | Unit | Test method |
|---|---|---|---|
| Density | 1.68 | g/cm³ | ASTM D3275 |
| Melt Mass-Flow Rate (MFR) (275°C/2.16 kg) | 4.0 | g/10 min | ASTM D3275 |
| Particle Size | 26.0 | µm | Internal Method |

| Thermal | Typical Value | Unit | Test method |
|---|---|---|---|
| Melting Temperature | 242 | °C | ASTM D3275 |

## Additional Information

Processing

- It can be processed using normal electrostatic Spray Deposition Powder coating techniques. Generally the procedure involves substrate preparation, powder 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® 7518 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® ECTFE melt processable fluropolymer 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® ECTFE melt processable fluropolymer 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. Vapor 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, vapor or fumes.
- See Material Safety Data Sheet for detailed advice on waste disposal methods.

Packaging:

- Halar® 7518 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.

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