

PRODUCT INFORMATION

ACRYLITE® Hi-Gloss FT-8 acrylic polymer

Product Profile:

ACRYLITE® Hi-Gloss FT-8 polymer is an amorphous thermoplastic molding and extrusion compound based on polymethyl methacrylate (PMMA). ACRYLITE® Hi-Gloss FT-8 polymer is available in a range of opaque colors including deep jet black.

Typical properties of ACRYLITE® Hi-Gloss acrylic polymers are:

- excellent weather resistance
- high mechanical strength
- high surface hardness and mar resistance
- good melt flow rate
- versatile colorability due to crystal clarity

The special properties of ACRYLITE® Hi-Gloss FT-8 polymer are:

- high heat resistance
- high melt strength
- available in a range of opaque colors

Application:

Used for injection molding of automotive parts.

Examples:

Automotive surface parts (e.g. exterior pillars, mirror housings and exterior covers); Can be used to replace Class A painted applications.

Processing:

ACRYLITE® Hi-Gloss FT-8 polymer can be processed in injection molding machines and extrusion lines with 3- zone general purpose screws.

Physical Form / Packaging:

Available in 1500 lb. gaylord boxes; other packaging available on request.

Properties:

| | Parameter | Unit | Standard | ACRYLITE® Hi-Gloss FT-8 acrylic polymer |
|--|---------------|------------------------|----------------|---|
| Mechanical Properties | | | | |
| Tensile Modulus | 1 mm/min | MPa | ISO 527 | 3300 |
| Stress @ Break | 5 mm/min | MPa | ISO 527 | 77 |
| Strain @ Break | 5 mm/min | % | ISO 527 | 5,5 |
| Charpy Impact Strength | 23°C | kJ/m ² | ISO 179/1eU | 20 |
| Thermal Properties | | | | |
| Vicat Softening Temperature | B / 50 | °C | ISO 306 | 108 |
| Glass Transition Temperature | | °C | ISO 11357 | 117 |
| Temp. of Deflection under Load | 0.45 MPa | °C | ISO 75 | 103 |
| Temp. of Deflection under Load | 1.8 MPa | °C | ISO 75 | 98 |
| Coeff. of Linear Therm. Expansion | 0 - 50°C | E-5 /°K | ISO 11359 | 8 |
| Classes of construction product | | | DIN EN 13501-1 | E |
| Rheological Properties | | | | |
| Melt Volume Rate, MVR | 230°C / 3,8kg | cm ³ /10min | ISO 1133 | 3 |
| Other Properties | | | | |
| Density | | g/cm ³ | ISO 1183 | 1.19 |
| Recommended Processing Conditions | | | | |
| Predrying Temperature | | °C | | max. 98 |
| Predrying Time in Desiccant-Type Drier | | h | | 2 - 3 |
| Melt Temperature | | °C | | 220 - 260 |
| Mold Temperature (Injection Molding) | | °C | | 60 - 90 |

All listed technical data are typical values intended for your guidance. They are given without obligation and do not constitute a materials specification.

Certified to ISO 9001:2015, ISO 14001:2015 and IATF 16949:2016.

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