

Product Information

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ACRYLITE® FT8 acrylic polymer

Product Profile:

ACRYLITE FT8 polymer is an amorphous thermoplastic molding and extrusion compound based on polymethyl methacrylate (PMMA). ACRYLITE FT18 polymer is available in a range of opaque colors including deep jet black.

Typical properties of ACRYLITE® 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 FT8 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 FT8 polymer can be processed in injection molding machines and extrusion lines with 3- zone general purpose screws.

Packaging:

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

Properties:

	Parameter	Unit	Standard	ACRYLITE® FT8 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	IEC 10006	117
Deflection Temperature Under Load	0.45 MPa	°C	ISO 75	103
Deflection Temperature Under Load	1.8 MPa	°C	ISO 75	98
Coeff. of Linear Therm. Expansion	0 – 50°C	E-5 /°K	ISO 11359	8
Fire Rating			DIN 4102	B2
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		h		2 – 3
Melt Temperature		°C		220 – 260
Mold Temperature		°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.

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Evonik Cyro LLC 379 Interpace Parkway, Parsippany, NJ 07054 USA
 Phone: 800-631-5384 Email: cyro.polymer@evonik.com www.cyro.com
 Technical Support: visit the TechKnowlogy Center at cyro.custhelp.com

