

ACRYLITE[®] Hi-Gloss FT15 polymer

Product Profile:

ACRYLITE[®] Hi-Gloss FT15 polymer is an amorphous thermoplastic molding and extrusion compound based on polymethyl methacrylate (PMMA). ACRYLITE[®] Hi-Gloss FT15 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 light transmission
- 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 FT15 polymer are:

- high heat resistance
- available in transparent and a range of opaque colors
- medium melt flow rate
- AMECA listed

Application:

Used for injection molding and extrusion applications.

Examples:

Automotive surface parts (e.g. exterior appliqué); automotive lights, and luminaire covers for high heat lighting applications (exterior and interior).

Processing:

ACRYLITE[®] Hi-Gloss FT15 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® Hi-Gloss FT15 polymer
Mechanical Properties				
Tensile Modulus	1 mm/min	MPa	ISO 527	3500
Stress @ Break	5 mm/min	MPa	ISO 527	50
Strain @ Break	5 mm/min	%	ISO 527	3.1
Charpy Impact Strength	23°C	kJ/m ²	ISO 179/1eU	18
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	115
Glass Transition Temperature		°C	IEC 10006	121
Deflection Temperature Under Load	0.45 MPa	°C	ISO 75	107
Deflection Temperature Under Load	1.8 MPa	°C	ISO 75	105
Fire Rating			DIN 4102	B2
Glow Wire Ignition Temperature		°C	IEC 60695-2	675
Rheological Properties				
Melt Volume Rate, MVR	230°C & 3.8kg	cm ³ /10min	ISO 1133	4.5
Optical Properties				
	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	Opaque
Refractive Index			ISO 489	Opaque
Other Properties				
Density		g/cm ³	ISO 1183	1.19

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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Ref. No.: R13606-I Date: 07/07/2011