

PRODUCT INFORMATION

ACRYLITE® Hi-Gloss FT15 black 9V022 acrylic 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 appliques); 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.

Physical Form / Packaging:

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

Properties:

	Parameter	Unit	Standard	ACRYLITE® Hi-Gloss FT15 black 9V022 acrylic 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	ISO 11357	121
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	107
Temp. of Deflection under Load	1.8 MPa	°C	ISO 75	105
Classes of construction product			DIN EN 13501-1	E
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				
Luminous transmittance	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	Opaque
Refractive Index	589nm/23°C		ISO 489	Opaque
Other Properties				
Density		g/cm ³	ISO 1183	1.19
Recommended Processing Conditions				
Predrying Temperature		°C		100
Predrying Time in Desiccant-Type Drier		h		3 - 4
Melt Temperature		°C		220 - 250
Mold Temperature (Injection Molding)		°C		70 - 95

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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