

ACRYLITE® Hi-Gloss FT15

Polymethyl Methacrylate Acrylic
Evonik Cyro LLC

Message:

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.

General Information	
UL YellowCard	E54671-100101698
Features	Amorphous
	Good Colorability
	Good Flow
	Good Weather Resistance
	High Clarity
	High Hardness
	High Heat Resistance
	High Strength
	Scratch Resistant
Uses	Automotive Applications
	Automotive Exterior Trim
	Lighting Fixtures
Agency Ratings	EC 1907/2006 (REACH)
Appearance	Black
	Colors Available
	Opaque
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	4.50	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2/1
Tensile Stress (Break)	50.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.1	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	18	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	107	°C	ISO 75-2/B
1.8 MPa, Unannealed	105	°C	ISO 75-2/A
Glass Transition Temperature	121	°C	IEC 1006
Vicat Softening Temperature	115	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Glow Wire Ignition Temperature	675	°C	IEC 60695-2-13
Fire Rating	B2		DIN 4102

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