ACRYLITE® Heatresist FT15

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

Message:

ACRYLITE® Heatresist FT15 polymer is an amorphous thermoplastic molding and extrusion compound based on polymethyl methacrylate (PMMA).
Typical properties of ACRYLITE® Heatresist 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® Heatresist 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	
Features	Amorphous
	Good Colorability
	Good Weather Resistance
	High Clarity
	High Hardness
	High Heat Resistance
	High Strength
	Medium Flow
	Scratch Resistant
Uses	Automotive Applications
	Automotive Exterior Trim
	Lighting Applications
Agency Ratings	EC 1907/2006 (REACH)
Appearance	Clear/Transparent
	Colors Available
	Opaque
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method

Density	1.19	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	4.50	cm³/10min	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/m²	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**
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Ignition Temperature	675	°C	IEC 60695-2-13
Fire Rating	B2		DIN 4102
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index	1.502		ISO 489
Transmittance (3000 µm)	91.0	%	ISO 13468-2

Recommended distributors for this material

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