

Product Information

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ACRYLITE PLUS® NTA-1 impact acrylic polymer

Product Profile:

ACRYLITE PLUS NTA-1 polymer is an opaque, amorphous, and impact-modified thermoplastic molding and extrusion compound based on polymethyl methacrylate.

Typical properties of ACRYLITE PLUS® impact acrylic polymer are:

- excellent weather resistance
- improved resistance to stress cracking
- good melt flow rate
- good polishability
- impact resistance

The special properties of ACRYLITE PLUS NTA-1 polymer are:

- good heat resistance
- available in a range of opaque colors
- high melt strength
- increased impact/break resistance and strength

Application:

Used for injection molding technical parts.

Examples:

Automotive surface parts such as exterior pillars, mirror housings, pillar panels, spoiler, two-shot structural protection applications where acrylic is applied over other non-weatherable polymers, emblems and interior trim; housings for consumer products.

Processing:

ACRYLITE PLUS NTA-1 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 PLUS® NTA-1 polymer
Mechanical Properties				
Tensile Modulus	1 mm/min	MPa	ISO 527	2700
Yield Stress	50 mm/min	MPa	ISO 527	68
Yield Strain	50 mm/min	%	ISO 527	5
Nominal Strain @ Break		%	ISO 527	10
Charpy Impact Strength	23°C	kJ/m ²	ISO 179/1eU	33
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	110
Glass Transition Temperature		°C	IEC 10006	120
Deflection Temperature Under Load	0.45 MPa	°C	ISO 75	103
Deflection Temperature Under Load	1.8 MPa	°C	ISO 75	102
Fire Rating			DIN 4102	B2
Flammability UL 94	1.6 mm	Class	IEC 707	HB
Glow Wire Ignition Temperature		°C	IEC 60695-2	675
Rheological Properties				
Melt Volume Rate, MVR	230°C & 3.8kg	cm ³ /10min	ISO 1133	3
Other Properties				
Density		g/cm ³	ISO 1183	1.18
Water Absorption		% max.	ISO 62	> 3
Recommended Processing Conditions				
Predrying Temperature		°C		max. 100
Predrying Time		h		3 - 4
Melt Temperature		°C		220 - 250
Mold Temperature		°C		50 - 85

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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