Product Information

ACRYLITE® Hi-Gloss NTA-1 polymer

Product Profile:

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

Typical properties of ACRYLITE® Hi-Gloss acrylic polymers are:
- excellent weather resistance
- improved resistance to stress cracking
- good melt flow rate
- good polishability
- impact resistance

The special properties of ACRYLITE® Hi-Gloss 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® Hi-Gloss NTA-1polymer 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 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/m²	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
Glow Wire Ignition Temperature		°C	IEC 60695-2	675
Rheological Properties				
Melt Volume Rate, MVR	230°C & 3.8kg	cm³/10min	ISO 1133	3
Other Properties				
Density		g/cm³	ISO 1183	1.18
Water Absorption		% max.	ISO 62	> 3

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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