

## Product Information

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### ACRYLITE PLUS® NTA-3 impact acrylic polymer

#### Product Profile:

ACRYLITE PLUS NTA-3 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-3 polymer are:

- high heat resistance
- available in a range of opaque colors
- high melt strength

#### Application:

Used for injection molding technical parts.

#### Examples:

Automotive surface parts such as exterior pillars, mirror housings, pillar panels, spoilers, 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-3 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-3 polymer
<b>Mechanical Properties</b>				
Tensile Modulus	1 mm/min	MPa	ISO 527	2900
Stress @ Break	5 mm/min	MPa	ISO 527	60
Strain @ Break	5 mm/min	%	ISO 527	2.6
Charpy Impact Strength	23°C	kJ/m <sup>2</sup>	ISO 179/1eU	16
<b>Thermal Properties</b>				
Vicat Softening Temperature	B / 50	°C	ISO 306	116
Glass Transition Temperature		°C	IEC 10006	126
Deflection Temperature Under Load	0.45 MPa	°C	ISO 75	106
Deflection Temperature Under Load	1.8 MPa	°C	ISO 75	106
Fire Rating			DIN 4102	B2
Glow Wire Ignition Temperature		°C	IEC 60695-2	675
<b>Rheological Properties</b>				
Melt Volume Rate, MVR	230°C & 3.8kg	cm <sup>3</sup> /10min	ISO 1133	2
<b>Other Properties</b>				
Density		g/cm <sup>3</sup>	ISO 1183	1.18
Water Absorption		% max.	ISO 62	> 3
<b>Recommended Processing Conditions</b>				
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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