

ACRYLITE[®] Hi-Gloss NTA-3 polymer

Product Profile:

ACRYLITE[®] Hi-Gloss NTA-3 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-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[®] Hi-Gloss 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® Hi-Gloss NTA-3 polymer
Mechanical Properties				
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 ²	ISO 179/1eU	16
Thermal Properties				
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
Rheological Properties				
Melt Volume Rate, MVR	230°C & 3.8kg	cm ³ /10min	ISO 1133	2
Other Properties				
Density		g/cm ³	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.

This information and all technical and other advice are based on Evonik's present knowledge and experience. However, Evonik assumes no liability for such information or advice, including the extent to which such information or advice may relate to third party intellectual property rights. Evonik reserves the right to make any changes to information or advice at any time, without prior or subsequent notice. EVONIK DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, AND SHALL HAVE NO LIABILITY FOR, MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE), OR OTHERWISE. EVONIK SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. It is the customer's sole responsibility to arrange for inspection and testing of all products by qualified experts. Reference to trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. ACRYLITE, ACRYMID, CYROLITE, CYREX, CYRO, CYROVU, Vu-Stat and XT polymer are registered trademarks of Evonik Cyro LLC. Evonik's Business Unit Performance Polymers is a worldwide manufacturer of PMMA molding compounds sold under the trademark ACRYLITE® in the Americas and under the PLEXIGLAS® trademark everywhere outside of the Americas. ® = registered trademark

Evonik Cyro LLC 379 Interpace Parkway, Parsippany, NJ 07054 USA
Phone: 800-631-5384 Email: cyro.polymer@evonik.com www.acrylite-polymers.com
Technical Support: visit the TechKnowlogy Center at cyro.custhelp.com

Ref. No.: 3363A-1008-ACCESSDB R13606-I Date: 07/05/2011