

PRODUCT INFORMATION

PLEXIGLAS® Hi-Gloss NTA-3

Product Profile:

PLEXIGLAS® Hi-Gloss NTA-3 is a compound with an increased heat deflection temperature based on polymethyl methacrylate (PMMA).

Besides the well-known properties of PLEXIGLAS® molding compound, such as

- good flow
- high mar resistance
- good weather resistance
- good polishability,

PLEXIGLAS® Hi-Gloss NTA-3 offers the added benefit of

- increased heat deflection temperature under load.

Application:

PLEXIGLAS® Hi-Gloss NTA-3 is particularly suitable for injection molding technical components.

Owing to its superior brilliance, high-gloss (Class A) surfaces can be obtained in opaque colors.

Examples:

automotive body parts: window channels, pillar panels

Processing:

PLEXIGLAS® Hi-Gloss NTA-3 can be processed on machines with 3-zone general purpose screws for engineering thermoplastics.

Physical Form / Packaging:

PLEXIGLAS® Hi-Gloss NTA-3 compounds are supplied as pellets of uniform size, packaged in 25kg polyethylene bags or in 500kg boxes with PE lining; other packaging on request.

For more information:

For more information, e.g. Charts or lists of resistance are in the database CAMPUS® (<http://www.campusplastics.com>) free of charge.

Properties:

	Parameter	Unit	Standard	PLEXIGLAS® Hi-Gloss NTA-3
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/m²	ISO 179/1eU	16
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	116
Glass Transition Temperature		°C	ISO 11357	126
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	106
Temp. of Deflection under Load	1.8 MPa	°C	ISO 75	106
Classes of construction product			DIN EN 13501-1	E
Glow Wire Ignition Temperature		°C	IEC 60695-2	675
Rheological Properties				
Melt Volume Rate, MVR	230°C / 3.8kg	cm³/10min	ISO 1133	2
Other Properties				
Density		g/cm³	ISO 1183	1.18
Water Absorption in Water	saturation, 23°C	%	ISO 62	> 3
Recommended Processing Conditions				
Predrying Temperature		°C		max. 100
Predrying Time in Desiccant-Type Drier		h		2 - 3
Melt Temperature		°C		220 - 250
Mold Temperature (Injection Molding)		°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.

Certified to ISO 9001:2015, ISO 14001:2015 and IATF 16949:2016.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Röhm is a worldwide manufacturer of PMMA products sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian continents and under the ACRYLITE® trademark in the Americas.

® = registered trademark

PLEXIGLAS and PLEXIMID are registered trademarks of Röhm GmbH.

CAMPUS is a registered trademark of Chemie Wirtschaftsförderungs-GmbH, Frankfurt / M.

Röhm GmbH • Darmstadt • Germany
plexiglas.polymers@roehm.com
www.plexiglas-polymers.com
www.roehm.com

Ref. No.: MC90-E A1142 Date: 2020-02-20