

Product Information

Page 1 of 2

PLEXALLOY® NTA-1

Product Profile:

PLEXALLOY® NTA-1 is an impact-modified compound with a high 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,

PLEXALLOY® NTA-1 offers the added benefits of

- increased impact strength
- good heat deflection temperature under load.

Application:

PLEXALLOY® NTA-1 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:

add-on automotive body parts, mirror housings, pillar panels, spoilers

Processing:

PLEXALLOY® NTA-1 can be processed on machines with 3-zone general purpose screws for engineering thermoplastics.

Physical Form / Packaging:

PLEXALLOY® NTA-1 compounds are supplied as pellets of uniform size, packaged in 25kg polyethylene bags or in 500kg boxes with PE lining; other packaging on request.

Properties:

	Parameter	Unit	Standard	PLEXALLOY® NTA-1
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
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	103
Temp. of Deflection 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 in Water		%	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.

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