

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.

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/m ²	ISO 179/1eU	16
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	116
Glass Transition Temperature		°C	IEC 10006	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
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 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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