

## PRODUCT INFORMATION

# PLEXIGLAS® Hi-Gloss NTA-5 black 9V022

### Product Profile:

PLEXIGLAS® Hi-Gloss NTA-5 black 9V022 is an amorphous thermoplastic molding compound, based on impact-modified polymethyl methacrylate (PMMA).

PLEXIGLAS® molding compounds have the following typical properties:

- high weather resistance
- brilliant appearance
- 100 % recyclable

PLEXIGLAS® Hi-Gloss NTA-5 black 9V022 is characterized by the following additional properties:

- highest breaking strength and impact resistance
- increased heat resistance
- improved resistance to stress cracking
- balanced property profile

### Application:

PLEXIGLAS® Hi-Gloss NTA-5 black 9V022 is particularly suitable for injection molding of technical components where high impact resistance is needed. Due to its superior brilliance high-gloss Class A surfaces can be obtained without painting.

### Examples:

Add-on automotive body parts, pillar-trims, mirror housings, trim parts at front – and rear end, etc.

### Processing:

PLEXIGLAS® Hi-Gloss NTA-5 black 9V022 can be processed by injection molding with a three-section screw suitable for the processing of PMMA.

### Physical Form / Packaging:

PLEXIGLAS® Hi-Gloss NTA-5 black 9V022 are supplied as cylindrical pellets in 25 kg polyethylene bags or 500 kg boxes with PE lining.

## Properties:

	Parameter	Unit	Standard	PLEXIGLAS® Hi-Gloss NTA-5 black 9V022
<b>Mechanical Properties</b>				
Tensile Modulus	1 mm/min	MPa	ISO 527	2100
Yield Stress	50 mm/min	MPa	ISO 527	54
Yield Strain	50 mm/min	%	ISO 527	5
Nominal Strain @ Break		%	ISO 527	48
Charpy Impact Strength	23°C	kJ/m <sup>2</sup>	ISO 179/1eU	110
<b>Thermal Properties</b>				
Vicat Softening Temperature	B / 50	°C	ISO 306	103
Glass Transition Temperature		°C	ISO 11357	113
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	102
Temp. of Deflection under Load	1.8 MPa	°C	ISO 75	96
Coeff. of Linear Therm. Expansion	0 - 50°C	E-5 /°K	ISO 11359	11
Flammability UL 94	1.5 mm	Class	IEC 60695-11-10	HB
<b>Rheological Properties</b>				
Melt Volume Rate, MVR	230°C / 3.8kg	cm <sup>3</sup> /10min	ISO 1133	1.3
<b>Other Properties</b>				
Density		g/cm <sup>3</sup>	ISO 1183	1.16
Water Absorption in Water	saturation, 23°C	%	ISO 62	1.5
Humidity Absorption	23°C / 50%	%	ISO 62	0.5
<b>Recommended Processing Conditions</b>				
Predrying Temperature		°C		80
Predrying Time in Desiccant-Type Drier		h		> 4
Melt Temperature		°C		230 - 260
Mold Temperature (Injection Molding)		°C		60 - 80

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.

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