# Plexiglas® Hi-Gloss NTA-3

### Polymethyl Methacrylate Acrylic

#### **Evonik Industries AG**

#### Message:

Product Profile:
PLEXIGLAS I 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

General Information				
Features	Good Weather Resistance			
	High Flow			
	High Gloss			
	High Impact Resistance			
Uses	Automotive Applications			
	Automotive Backlights Automotive Bumper Automotive Exterior Parts Automotive Exterior Trim			
	Automotive Window Encapsulation	I		
Appearance	Opaque			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Density	1.18	g/cm³	ISO 1183	
Melt Volume-Flow Rate (MVR) (230°C/3.8				
kg)	2.00	cm³/10min	ISO 1133	
Water Absorption (23°C, 24 hr)	> 3.0	%	ISO 62	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	2900	MPa	ISO 527-2/1	
Tensile Stress (Break)	60.0	MPa	ISO 527-2/5	
Tensile Strain (Break)	2.6	%	ISO 527-2/5	

Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	16	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	106	°C	ISO 75-2/B
1.8 MPa, Unannealed	106	°C	ISO 75-2/A
Glass Transition Temperature	126	°C	ISO 11357-2
Vicat Softening Temperature	116	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Glow Wire Ignition Temperature	675	°C	IEC 60695-2-13
Fire Rating	B2		DIN 4102
Injection	Nominal Value	Unit	
Drying Temperature	< 100	°C	
Drying Time	2.0 to 3.0	hr	
Processing (Melt) Temp	220 to 250	°C	
Mold Temperature	50.0 to 85.0	°C	

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