Plexiglas® Hi-Gloss NTA-1

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

Product Profile:
PLEXIGLAS® Hi-Gloss 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,
PLEXIGLAS® Hi-Gloss NTA-1 offers the added
benefits of
increased impact strength
good heat deflection temperature under load.
Application:
PLEXIGLAS® Hi-Gloss 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:
PLEXIGLAS® Hi-Gloss NTA-1can be processed on machines with 3-zone general purpose screws for engineering thermoplastics.
Physical Form / Packaging:
PLEXIGLAS® Hi-Gloss 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.

General Information	
Additive	Impact Modifier
Features	Good Flow
	Good Weather Resistance
	High Gloss
	High Heat Resistance
	High Impact Resistance
	High Scratch Resistance
	Impact Modified
Uses	Automotive Applications
	Automotive Exterior Parts
	Automotive Exterior Trim
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)	3.00	cm^3/10min	ISO 1133
Water Absorption (23°C, 24 hr)	> 3.0	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2700	MPa	ISO 527-2/1
Tensile Stress (Yield)	68.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50
Nominal Tensile Strain at Break	10	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	33	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	103	°C	ISO 75-2/B
1.8 MPa, Unannealed	102	°C	ISO 75-2/A
Glass Transition Temperature	120	°C	ISO 11357-2
Vicat Softening Temperature	110	°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	

Recommended distributors for this material

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