

ACRYLITE® Hi-Gloss NTA-1

Polymethyl Methacrylate Acrylic
Evonik Cyro LLC

Message:

ACRYLITE® Hi-Gloss NTA-1 polymer is an opaque, amorphous, and impact-modified thermoplastic molding and extrusion compound based on polymethyl methacrylate.

Typical properties of ACRYLITE® Hi-Gloss acrylic polymers are:

- excellent weather resistance
- improved resistance to stress cracking
- good melt flow rate
- good polishability
- impact resistance

The special properties of ACRYLITE® Hi-Gloss NTA-1 polymer are:

- good heat resistance
- available in a range of opaque colors
- high melt strength
- increased impact/break resistance and strength

Application:

Used for injection molding technical parts.

General Information			
Additive	Impact Modifier		
Features	Amorphous		
	Good Flow		
	Good Impact Resistance		
	Good Melt Strength		
	Good Strength		
	Good Weather Resistance		
	Impact Modified		
	Medium Heat Resistance		
Uses	Automotive Applications		
	Automotive Exterior Trim		
	Automotive Interior Trim		
	Housings		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Colors Available		
	Opaque		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method

Density	1.18	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	3.00	cm ³ /10min	ISO 1133
Water Absorption (Equilibrium, 23°C, 50% RH)	< 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	IEC 1006
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

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