

POLYLITE® 720-700

First Emission: 11/02/2019

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Product type

Unsaturated polyester resin in styrene, Isophthalic

Appearance

Amber

Main resin characteristics

Certificate Lloyd's
DNV-GL Grade 1
Low viscosity
Medium reactivity
Preaccelerated

Main applications

Marine, boats
Pipes and tanks

Moulding informations

Injection moulding, RTM
Vacuum infusion

Shelf life and storage

Store in the shade, out of direct sunlight. Keep storage temperature below 25°C. Unseal container just before use. Shelf-life will be reduced reaching higher temperature.

Precaution for handling

Read carefully the Safety Data Sheet

FEATURES OF THE LIQUID RESIN ⁽¹⁾

Properties	Test Method	Unit	Typical values
Specific weight at 23°C		g/cm ³	1,07-1,11
Cone & Plate	ISO 2884	mPa.s	200-250
Styrene content	B070	%	46-50
Reactivity	at 20°C + 2% MEKP50		
Gel time ⁽²⁾	G020	minutes	90-110
Acid value	ISO 2114	mgKOH/g	< 14
Shelf life at 23°C in the dark	G180	months	6

1) Thoroughly test in your applications before full-scale use. Geltimes may vary due to the reactive nature of these materials and due to different brands of curing additives. Always test on small scale before formulating large quantities.

2) If present, Cobalt is herewith intended as octoate. Use of different Cobalt salts could result in different geltimes. Always test on small scale before formulating large quantities.

PROPERTIES OF THE CURED UNREINFORCED RESIN ⁽³⁾

Curing cycle	Fully postcured		
Tensile strength	ISO 527 (2012)	MPa	76
Tensile modulus	ISO 527 (2012)	MPa	3650
Elongation at break	ISO 527 (2012)	%	3,5
Flexural strength	ISO 178/B (2010)	MPa	140
Flexural modulus	ISO 178/B (2010)	MPa	3550
HDT	ISO 75-2A (2013)	°C	86
Barcol hardness at 25°C	ASTM D 2583 (2007)		40
Volumetric shrinkage		%	7.5

3) Properties are typical values, based on material tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

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