

## POLYLITE® 720-700

First Emission: 11/02/2019

Version: 2, 21/03/2023

### Product type

Unsaturated polyester resin in styrene, Isophthalic

### Appearance

Bluish - Veiled

### Main resin characteristics

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

### Main applications

Marine, boats  
Pipes and tanks

### Moulding informations

Hand lay up and Spray up

### 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  
Stir the resin before use, without introducing air

## FEATURES OF THE LIQUID RESIN <sup>(1)</sup>

Properties	Test Method	Unit	Typical values
Specific weight at 23°C		g/cm <sup>3</sup>	1,1
Brookfield viscosity at 23°C, sp 2 rpm 12	ASTM D2196-86	mPa.s	900-1100
Cone & Plate		mPa.s	280-330
Non Volatile Content	MT-CU 001C	%	53,5-57,5
Reactivity	at 23°C + 1% MEKP50		
Gel time <sup>(2)</sup>	G020	minutes	15-25
Acid value	ISO 2114	mgKOH/g	< 14
Storage stability at 23°C in the dark	MT-CU 002S	months	6

1) Thoroughly test in your applications before full-scale use. Gel times 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 gel times. Always test on small scale before formulating large quantities.

## PROPERTIES OF THE CURED UNREINFORCED RESIN <sup>(3)</sup>

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)		45
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.

Polynt S.p.A. - Via Enrico Fermi, 51 - IT - 24020 Scanzorosciate (BG).  
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