

POLYLITE® PO-4672

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Version: 2, 23/03/2023

Product type

Unsaturated polyester resin in styrene, Orthophthalic

Appearance

Main resin characteristics

Low viscosity
Good flexibility and elasticity
Medium reactivity
Type 1140 (DIN 16946-2)
High thermal resistance

Main applications

Pipes and tanks

Moulding informations

Centrifugal casting

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 ⁽¹⁾

Properties	Test Method	Unit	Typical values
Specific weight at 20°C		g/cm ³	1.08
Brookfield viscosity at 23°C, sp 2 rpm 100	A050	mPa.s	185-225
Non Volatile Content	MT-CU 001C	%	52-58
Reactivity	at 25°C + 0,23g Co 4% + 2,36g MEKP50		
25°C - 35°C ⁽²⁾	G080	minutes	5-9
25°C - Peak	G080	minutes	<25
Exothermic peak	G080	°C	180-210
Acid value	K060	mgKOH/g	12-20
Storage stability at 23°C in the dark	MT-CU 002S	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⁾

	Fully postcured		
Tensile strength	ISO 527 (2012)	MPa	70
Tensile modulus	ISO 527 (2012)	MPa	3300
Tensile elongation	ISO 527 (2012)	%	4
Flexural strength	ISO 178 (2011)	MPa	130
Flexural modulus	ISO 178 (2011)	MPa	3350
HDT	ISO 75-2A (2013)	°C	95

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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