

DISTITRON® 514 Z

First Emission: 04/05/1996

Version: 19, 18/12/2018

Product type

Unsaturated polyester resin in styrene, Orthophthalic

Appearance

Bluish - Light - Transparent

Main resin characteristics

Clear, unaccelerated, Good transparency, Light stabilized

Main applications

Transparent and corrugated sheets

Moulding informations

Continuous laminating

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

Note

FEATURES OF THE LIQUID RESIN ⁽¹⁾

Properties	Test Method	Unit	Typical values
Specific weight at 20°C		g/cm ³	1,12
Brookfield viscosity at 25°C, sp 2 rpm 20	MT-CU025V	mPa.s	270 - 300
Solid content	MT-CU001C	%	59 - 62
Reactivity	at 25°C + 0,2% Co 6% + 1,5% MEKP50		
Gel time ⁽²⁾	RS.08.G	min:sec	4:50 - 5:10
Delta	RS.08.G	min:sec	7:00 - 7:50
Exothermic peak	RS.08.G	°C	180 - 200
Acidity	MT-CU001I	mgKOH/g	24 - 29
Shelf life at 23°C in the dark	MT-CU002S	months	3

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	24h at 23°C + 2h at 100°C + 1h at 100°C		
Tensile strength	ISO 527 (2012)	MPa	65
Tensile modulus	ISO 527 (2012)	MPa	4000
Elongation at break	ISO 527 (2012)	%	1,8
Flexural strength	ISO 178/B (2010)	MPa	130
Flexural modulus	ISO 178/B (2010)	MPa	4000
HDT	ISO 75-2A (2013)	°C	70
Glass transition	ASTM E 1545 (2011)	°C	85
Barcol hardness at 25°C	ASTM D 2583 (2007)	units	45

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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