

# EPOVIA OPTIMUM® EP KRF 1101 TA

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## Product type

Bisphenol-A Epoxy Resin based vinyl ester, without styrene

## Appearance

Bluish - Light - Transparent

## Main resin characteristics

Preaccelerated, Without styrene, in a reactive monomer, Thixotropic, Very good chemical resistance

## Main applications

Pipes and tanks

## 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

Stir the resin before use, without use air bubbles, Read carefully the Safety Data Sheet

## Note

## FEATURES OF THE LIQUID RESIN

Properties	Test Method	Unit	Typical values
Specific weight at 20°C		g/cm <sup>3</sup>	1.05 - 1.10
Brookfield viscosity at 23°C, sp 3 rpm 50	MT-CUT23V	mPa.s	800 - 1000
Solid content	MT-CU001C	%	50 - 55
Reactivity	at 60°C + peroxydes		
Gel time	MT-CU149R	minutes	15 - 23
Curing time	MT-CU149R	minutes	20 - 30
Exothermic peak	MT-CU149R	°C	130 - 140
Shelf life at 23°C in the dark	MT-CU002S	months	6

## PROPERTIES OF THE CURED UNREINFORCED RESIN

Curing cycle	16 h at 80°C + 2 h at 120°C		
Tensile strength	ISO 527 (1999)	MPa	30
Tensile modulus	ISO 527 (2012)	MPa	3500
Elongation at break	ISO 527 (2012)	%	0.8
Flexural strength	ISO 178 (2011)	MPa	70
Flexural modulus	ISO 178 (2011)	MPa	3500
HDT	ISO 75 -2A (2013)	°C	118
Barcol hardness at 25°C	ASTM D 2583 (2007)	units	55

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