

## EPOVIA OPTIMUM® KRF 1051

First Emission: 12/12/2016

Version: 05, 17/10/2017

### Product type

Novolac Epoxy Resin based vinyl ester in styrene

### Appearance

Light - Transparent

### Main resin characteristics

Medium reactivity, Medium viscosity

### Main applications

General purpose,  
Pipes and tanks

### Moulding informations

Filament winding,  
Hand lay up and Spray up,  
Pultrusion

### 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

Properties	Test Method	Unit	Typical values
Specific weight at 20°C		g/cm <sup>3</sup>	1.05- 1.1
Brookfield viscosity at 23°C, sp 2 rpm 50	MT-CU023V	mPa.s	250 - 450
Solid content	MT-CU001C	%	68 - 72
Reactivity	at 23°C + 0,95% accelerator + 1,5% MEKP 8,5% active oxigen (Bx LPT or K12)		
Gel time	MT-CU200R	minutes	35 - 45
23°C - Peak	MT-CU200R	minutes	40 - 60
Exothermic peak	MT-CU200R	°C	155 - 175
Shelf life at 23°C in the dark	MT-CU002S	months	12

## PROPERTIES OF THE CURED UNREINFORCED RESIN

Curing cycle	24h at 23°C + 2h at 80°C + 1h at 120°C		
Tensile strength	ISO 527 (2012)	MPa	55
Tensile modulus	ISO 527 (2012)	MPa	3730
Elongation at break	ISO 527 (2012)	%	1.8
Flexural strength	ISO 178 (2011)	MPa	115
Flexural modulus	ISO 178 (2011)	MPa	3730
HDT	ISO 75 -2A (2013)	°C	120
Glass transition	ASTM E 1545 (2011)	°C	171

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