

## POLYESTER RESIN ES 2450

Polyester

1 | Page

Version: 1/2015

TDS EU/EN

# Technical Data Sheet

Polyester Resin ES – 2450 LV continuous lamination (sheet) type polyester

### Description and Basic Properties

Polyester Resin ES – 2450 LV Continuous Lamination (sheet) type polyester is an orthophthalic based polyester that is specially prepared for general-purpose applications with medium reactivity and low viscosity. It is used in the production of opaque and transparent sheets through the processes of hand lay-up, machine and open molding. Commonly in construction industry it used in the production of roof and facade covering materials.

### Properties of Liquid Product

Property	Method	Unit	Deviation	Value
Appearance	-	-	-	Clear-Bluish
Density	ISO 1675	g/cm <sup>3</sup>	± 0.1	1.13
Viscosity	ISO 2555	cp	± 50	200
Monomer Content	-	%	± 2	40
Thixotropy	-	-	-	Not Applicable
Acid Number	ISO 2114	mgKOH/g	± 5	25
Gel Time	2535	minutes	± 1	7
Shelf Life	-	months	-	6

- Viscosity is measured at 25 °C, 10 rpm with spindle 3
- Gel time is measured at 25 °C, by adding 1 mL Cobalt Octoate (% 1) 1 mL MEK-peroxide for 100 g sample.

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2 | Page

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### Properties of Pure Cured Resin

Test	Method	Unit	Deviation	Value
Flexural Strength	ISO 178	MPa	± % 10	150
Flexural Modulus	ISO 178	MPa	± % 10	3700
Elongation at Break	ISO 178	%	± % 10	2.9
Tensile Strength	ISO 527	MPa	± % 10	60
Modulus of Elasticity in Tensile	ISO 527	MPa	± % 10	3400
Elongation at Break	ISO 527	%	± % 10	2.4
Izod Impact Strength	ISO 180	Kj / m <sup>2</sup>	± % 10	10
Barkol Hardness	ASTM –D 2583	Barkol	± % 10	45
Heat Deflection Temperature	ISO 75 - A	°C	± % 10	80

### Storage Guidelines

Keep container tightly closed in a cool dry place and keep away from direct sunlight. Products with same charge numbers and production dates must be stored together. Pay attention to the handling life. Don't hoard more than 3 packages one on top of each other.

These information's are prepared by regarding general conditions. Rozachim AD is not responsible for any problem which due to lack of information.