

## COLPOLY 7524/8

### Unsaturated Polyester Resin

#### Description:

- » Unsaturated polyester resin for GRP, based on orthophthalic acid and standard glycols dissolved in styrene.
- » The resin has a high reactivity and a low viscosity.

#### Application:

- » Resin is recommended for wide range of applications; due to its low viscosity COLPOLY 7524/8 features excellent impregnation during the production of GRP mouldings which are processed by hand lay-up and injection techniques.
- » Recommended laminate thickness applied wet-on-wet 3 - 8 mm.

#### Features and benefits:

- » Excellent impregnation.
- » Excellent mechanical properties.
- » High HDT.

#### Approvals:

Cured unreinforced resin conforms to type 1140 according to DIN 16946 and is classified in group 1 according to DIN 18820.

#### Physical characteristics of the liquid resin:

Property	Range	Method / According to standard
Appearance	Clear	
Acid value	30 - 35 mg KOH/g	MH1051 / ISO 2114
Density, 25 °C	1.10 - 1.13 kg/L	MH1028 / ISO 2811
Styrene content	36 - 38%	MH2034
Viscosity; 25 °C, #2/20 rpm	200 - 250 mPa·s	MH1009 / ISO 3219
Flash point	34 °C	DIN 51 755
Shelf life at 25 °C in darkness	6 months	

#### Curing characteristics at 25 °C:

Property	Range	Method / According to standard
Time from 25 °C - 35 °C	12 - 16 minutes	MH3023 glass tube, 0.8% Co Acc. 1% 1.0% AAP
Time from 25 °C to peak	15 - 22 minutes	
Exothermic temperature (peak)	150 - 170 °C	

**Physical characteristics of cured nonreinforced base resin:**

Property	Range	Method / According to standard
Density, 20 °C	1.20 - 1.23 kg/L	ISO 1183
Tensile strength	70 - 90 MPa	ISO R 527
Elongation at break	3.0 - 4.0%	ISO R 527
Flexural strength	110 - 130 MPa	ISO 178
E - modulus in tension	3500 - 4000 MPa	ISO R 527
Impact resistance	13 - 17 kJ/m <sup>2</sup>	ISO 179
Heat distortion temperature	100 - 110 °C	ISO 75 A
Glass transition temperature	110 - 130 °C	ISO 537

**Cure:**

- » It is recommended that gel time be checked in the customer's plant as age, temperature, humidity and catalyst will produce varied gel times.
- » The catalyst level should not exceed 2.5% or fall below 1.0% for proper cure at ambient temperature.
- » The product should not be used when temperature condition is below 18 °C.

**Handling and safety precautions:**

Colpoly 7524/8 is flammable liquid and should be kept away from naked flames. For further details, please see the relevant Safety Data Sheet.

**Disclaimer**

This data is based on experience, for its completeness, we assume no liability. As we take no influence on the processing, it lies within the obligation of the customer to test, whether it is suitable for the intended purpose, before using the product. Any change in the processing procedure, the environmental conditions or the failure to comply with instructions may unfavorably influence the result. This Technical Datasheet is available on our website at [www.helios.si](http://www.helios.si). Should there be any discrepancies between this document and the version that appears on the website, then the version on the Website will take precedence.

**TECHNICAL DATASHEET**

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