

## COLPOLY 7172

### Unsaturated Polyester Resin

#### Description:

Unsaturated polyester resin for GRP, based on isophthalic acid and standard glycols dissolved in styrene.

#### Application:

Quality gel coats in general purpose or marine ware applications.

#### Features and benefits:

- » Good flexibility.
- » Good impact resistance.
- » Outstanding resistance to hydrolysis.

Approval: Lloyd's Register of Shipping

#### Physical characteristics of the liquid resin:

Property	Range	Method / According to standard
Appearance	Clear	
Acid value	10 - 25 mg KOH/g	MH1051 / ISO 2114
Density, 25 °C	1.10 - 1.12 kg/L	MH1028 / ISO 2811
Styrene content	31 - 35%	MH2034
Viscosity; 25 °C, #2/20 rpm	1100 - 1400 mPa·s	MH1009 / ISO 3219
Flash point	34 °C	DIN 51 755
Shelf life at 25 °C in darkness	6 months	

#### Curing characteristics at 20 °C:

Property	Range	Method / According to standard
Gel time	6 - 10 minutes	MH3021 / MH3023
Time from gel time to peak	6 - 10 minutes	100 g resin, 0.33% Co Acc. 6% 2.0% MEKP-50
Exothermic temperature (peak)	175 -195 °C	

**Note:** The information contained herein is provided in good faith and is to the best of our knowledge accurate, but we assume no liability for its accuracy or completeness. Therefore, the buyer is advised to determine the suitability of this product for the intended use. We retain the right to make any changes according to technological progress or further developments. For safety information please refer to the current Material Safety Data Sheet.

**Edition:** February 2021

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

Property	Range	Method / According to standard
Density, 20 °C	1.21 - 1.23 kg/L	ISO 1183
Barcol hardness	41 - 45	EN 59
Tensile strength	80 - 90 MPa	ISO R 527
Elongation at break	3.5 - 5.5%	ISO R 527
Flexural strength	130 - 150 MPa	ISO 178
E - modulus in tension	3000 - 3300 MPa	ISO R 527
Impact resistance	20 - 30 kJ/m <sup>2</sup>	ISO 179
Heat distortion temperature	90 - 100 °C	ISO 75 A
Glass transition temperature	115 - 125 °C	ISO 537

**Handling and safety precautions:**

Colpoly 7172 is flammable liquid and should be kept away from naked flames. For further details, please see the relevant Safety Data Sheet.

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