

# **COLPOLY 7800**

# **Unsaturated Polyester Resin**

#### **Description:**

- >> Unsaturated polyester resin based on isophthalic acid and standard glycols, dissolved in styrene.
- >> The resin has a medium reactivity and medium viscosity.

## Application:

- Resin is suitable for wide range of applications.
- General purpose applications hand lay-up and spray-up (boats, seats, containers, parts for car bodies, sporting equipment).

#### Features and benefits:

- Good flexibility.
- Good impact resistance.
- Good chemically resistant.

### Physical characteristics of the liquid resin:

Property	Range	Method / According to standard
Appearance	Clear	
Acid value	10 - 20 mg KOH/g	MH1051 / ISO 2114
Density, 20 °C	1.10 - 1.12 kg/L	MH1028 / ISO 2811
Styrene content	34 - 36%	MH2034
Viscosity, 25 °C	900 - 1100 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	5 - 10 minutes	MH3023
Time from 25 °C to peak	9 - 15 minutes	glass tube
Exothermic temperature (peak)	165 - 190 °C	1.0% Co Acc.1%, 2.0% MEKP-50

### Curing characteristics at 80 °C:

Property	Range	Method / According to standard
Time from 65 °C - 90 °C	10 - 14 minutes	MH3024
Time from 65 °C to peak	12 - 16 minutes	2% BP-50
Exothermic temperature (peak)	190 - 210 °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.

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# TECHNICAL DATA SHEET



### Physical characteristics of cured nonreinforced base resin:

Property	Range	Method / According to standard
Density, 20 °C	1.19 - 1.21 kg/L	ISO 1183
Tensile strength	85 - 95 MPa	ISO R 527
Elongation at break	4.0 - 5.0%	ISO R 527
Flexural strength	125 - 145 MPa	ISO 178
E - modulus in tension	2900 - 3300 MPa	ISO R 527
Impact resistance	23 - 27 kJ/m <sup>2</sup>	ISO 179
Heat distortion temperature	95 - 105 °C	ISO 75 A
Glass transition temperature	120 - 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 7800 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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