

COLPOLY RP 7015/8

Unsaturated Polyester Resin

Description:

- » Unsaturated polyester resin based on dicyclopentadiene, dissolved in styrene.
- » The resin has a medium reactivity and low viscosity.

Application:

The resin is suitable for applications in hot press moulding and pultrusion, typical applications are in field of electrical engineering, building and transport.

Features and benefits:

- » Optimal wetting of the glass fibre.
- » Good mechanical properties.
- » High HDT.

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, 25 °C	1.10 - 1.12 kg/L	MH1028 / ISO 2811
Styrene content	32 - 35%	MH2034
Viscosity; 25 °C, #2/20 rpm	300 - 400 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
Gel time	16 - 20 minutes	MH3021 / MH3023
Time from 25 °C to peak	10 - 20 minutes	100 g resin, 0.25% Co Acc. 6%, 1.3% MEKP-50
Exothermic temperature (peak)	170 - 190 °C	

Curing characteristics at 80 °C:

Property	Range	Method / According to standard
Time from 65 °C to 90 °C	7 - 9 minutes	MH3024 2% BP-50
Time from 65 °C to peak	10 - 12 minutes	
Exothermic temperature (peak)	200 - 220 °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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Physical characteristics of cured nonreinforced base resin:

Property	Range	Method / According to standard
Density, 20 °C	1.20 - 1.24 kg/L	ISO 1183
Barcol hardness	40 - 45	EN 59
Tensile strength	60 - 65 MPa	ISO R 527
Elongation at break	2.5 - 3.0%	ISO R 527
Flexural strength	90 - 110 MPa	ISO 178
E - modulus in tension	3600 - 3800 MPa	ISO R 527
Heat distortion temperature	90 - 95 °C	ISO 75 A
Glass transition temperature	105 - 115 °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 25 °C.
- » The product should not be used when temperature condition is below 18 °C.

Handling and safety precautions:

Colpoly RP 7015/8 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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