

COLVINYL VE 105 LV

Epoxy Vinyl Ester Resin

Description:

- » Epoxy vinyl ester resin dissolved in styrene.
- » The resin has a medium reactivity and low viscosity.

Application:

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

Features and benefits:

- » Optimal wetting of the glass fibre.
- » Good mechanical properties and excellent corrosion resistant.
- » High HDT.

Physical characteristics of the liquid resin:

Property	Range	Method / According to standard
Appearance	Clear	
Acid value	max. 15 mg KOH/g	MH1051 / ISO 2114
Density, 25 °C	1.05 - 1.10 kg/L	MH1028 / ISO 2811
Styrene content	32 - 36%	MH2034
Viscosity; 25 °C, #2/20 rpm	400 - 600 mPa·s	MH1009 / ISO 3219
Flash point	34 °C	DIN 51 755
Shelf life at 25 °C in darkness	6 months	

Curing characteristics at 80 °C:

Property	Range	Method / According to standard
Time from 65 °C to 90 °C	6 - 10 minutes	MH3024 2.0% BP-50
Time from 65 °C to peak	8 - 12 minutes	
Exothermic temperature (peak)	180 - 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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Physical characteristics of cured nonreinforced base resin:

Property	Range	Method / According to standard
Density, 20 °C	1.12 - 1.15 kg/L	ISO 1183
Barcol hardness	35	EN 59
Tensile strength	85 - 90 MPa	ISO R 527
Elongation at break	5 - 6%	ISO R 527
Flexural strength	140 - 145 MPa	ISO 178
E - modulus in tension	3300 - 3400 MPa	ISO R 527
Heat distortion temperature	105 - 110 °C	ISO 75 A
Glass transition temperature	120 - 125 °C	ISO 537

Handling and safety precautions:

Colvinyl VE 105 LV 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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