

COLPOLY 757

Unsaturated Polyester Resin

Description:

- » Unsaturated polyester resin based on orthophthalic modified maleates and standard glycols dissolved in styrene.
- » The resin can be readily thickened with magnesium oxide.

Application:

Resin is designed for use in producing bulk mould compound (BMC), sheet moulding compound (SMC).

Features and benefits:

- » Low shrink and low-profile SMC/BMC application.
- » High resistance to heat deformation.
- » Excellent electrical properties

Physical characteristics of the liquid resin:

Property	Range	Method / According to standard
Appearance	Transparent	
Acid value	18 - 26 mg KOH/g	MH1051 / ISO 2114
Density, 20 °C	1.10 - 1.12 kg/L	MH1028 / ISO 2811
Non-volatile matter	63.5 - 65.5%	MH1155 / ISO 3251
Viscosity, 23 °C	1150 - 1400 mPa·s	MH1009 / ISO 3219
Colour	max. 140 APHA	MH1125 / ISO 6271
Refractive index, 23 °C	1.523 - 1.527	MH1035 / DIN 51423 P1
Water content	0.05 - 0.15%	MH1041
Flash point	34 °C	DIN 51 755
Shelf life at 25 °C in darkness	6 months	

Curing characteristics at 140 °C:

Property	Range	Method / According to standard
Time from 40 - 140 °C	80 - 110 seconds	MH3026 glass tube 100 g resin, 1.0% TBPB
Time from 40 °C to peak	140 - 160 seconds	
Exothermic temperature (peak)	240 - 260 °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 - 1.22 kg/L	ISO 1183
Tensile strength	30 - 50 MPa	ISO R 527
Elongation at break	1.5 - 2.5%	ISO R 527
Flexural strength	100 - 120 MPa	ISO 178
E - modulus in tension	3300 - 3700 MPa	ISO R 527
Impact resistance	7 - 11 kJ/m ²	ISO 179
Heat distortion temperature	110 - 120 °C	ISO 75 A
Glass transition temperature	155 - 175 °C	ISO 537

Handling and safety precautions:

Colpoly 757 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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