

## COLPOLY 7572

### 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 moulding compound (BMC), sheet moulding compound (SMC).

#### Features and benefits:

- » Good overall performance.
- » High resistance to heat deformation.
- » Medium viscosity and high reactivity.

#### Physical characteristics of the liquid resin:

Property	Range	Method / According to standard
Appearance	Transparent	
Acid value	15 - 20 mg KOH/g	MH1051 / ISO 2114
Density, 20 °C	1.10 - 1.13 kg/L	MH1028 / ISO 2811
Non-volatile matter	63 - 66%	MH1155 / ISO 3251
Viscosity, 23 °C	1300 - 1500 mPa·s	MH1009 / ISO 3219
Colour	max. 140 APHA	MH1125 / ISO 6271
Refractive index, 23 °C	1.523 - 1.528	MH1035 / DIN 51423 P1
Water content	0.03 - 0.10	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 °C to 140 °C	40 - 70 minutes	MH3026 glass tube 100 g resin, 1% TBPB
Time from 40 °C to peak	80 - 120 minutes	
Exothermic temperature (peak)	240 - 260 °C	

#### 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	60 - 70 MPa	ISO R 527
Elongation at break	1.5 - 2.0%	ISO R 527
Flexural strength	100 - 120 MPa	ISO 178
E - modulus in tension	3700 - 3900 MPa	ISO R 527
Impact resistance	7 - 10 kJ/m <sup>2</sup>	ISO 179
Heat distortion temperature	125 - 135 °C	ISO 75 A
Glass transition temperature	145 - 155 °C	ISO 537

#### Handling and safety precautions:

##### TECHNICAL DATASHEET

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Colpoly 7572 is flammable liquid and should be kept away from naked flames. For further details, please see the relevant Safety Data Sheet.

**Disclaimer**

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