COLPOLY 7167

Unsaturated Polyester Resin

Description:

Unsaturated polyester resin based on isophthalic acid and neopentyl glycol, modified with acrylics and dissolved in styrene.

Application:

- Colpoly 7167 is designed for a wide variety of casting applications where resin combined with inorganic filler such as aluminium trihydrate (ATH) and cast.
- Resin is especially versatile for applications such as Solid Surface where they provide strength and thermal shock.
- We recommend for curing casting mass mixture of catalyst (MEKP/AAP) like e.g. Akperox ER 33 (AKPA KIMYA), Trigonox 61 (AKZO) etc.

Features and benefits:

- Excellent thermal shock resistance.
- Consistent cured matrix colour.
- Fast cure and cure follow-through.

Physical characteristics of the liquid resin:

Property	Range	Method / According to standard
Appearance	Slightly hazy	
Acid value	10 - 18 mg KOH/g	MH1051 / ISO 2114
Density, 25 °C	1.08 - 1.12 kg/L	MH1028 / ISO 2811
Monomers content	32 - 34%	MH2034
Viscosity; 25 °C, #2/20 rpm	1000 - 1200 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	9 - 11 minutes	MH3021 / MH3023 100 g resin, 0.2 g Co Acc. 5% 2.0% MEKP-50
Time from 25 °C to peak	20 - 30 minutes	
Exothermic temperature (peak)	160 - 180 °C	

Edition: July 2023

Helios TBLUS, d.o.o. | Količevo 65, 1230 Domžale, Slovenia | **T** +386 1 722 40 00
info@resinshelios.com | **www.resinshelios.com**
Part of KANSAI PAINT.

Physical characteristics of cured nonreinforced base resin:

Property	Range	Method / According to standard
Density, 20 °C	1.17 - 1.23 kg/L	ISO 1183
Barcol hardness	45 - 50	EN 59
Tensile strength	80 - 90 MPa	ISO R 527
Elongation at break	3.5 - 5.5%	ISO R 527
Flexural strength	130 - 150 MPa	ISO 178
E - modulus in tension	3000 - 3300 MPa	ISO R 527
Impact resistance	20 - 30 kJ/m^2	ISO 179
Heat distortion temperature	80 - 90 °C	ISO 75 A
Glass transition temperature	115 - 125 °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 7167 is flammable liquid and should be kept away from naked flames. For further details, please see the relevant Safety Data Sheet.

Edition: July 2023

Helios TBLUS, d.o.o. | Količevo 65, 1230 Domžale, Slovenia | **T** +386 1 722 40 00
info@resinshelios.com | **www.resinshelios.com**
Part of KANSAI PAINT.