

Neomould® 1982-W-1

Zero Shrinkage Mould Resin

Neomould® 1982-W-1 is a low styrene emitting, highly filled preaccelerated unsaturated polyester resin based on DCPD and low profile additives, dissolved in styrene.

Neomould® 1982-W-1 has low reactivity and viscosity and shows zero shrinkage upon cure.

Benefits

Because of its fast curing characteristics combined with low peak exotherm in thin layers and zero-shrinkage behaviour this resin is extremely suitable for mould making.

The resin was designed with easy processing in mind, wet out of fibres is quick without drag on roller and the colour of the resin makes it easy to spot air pockets during laminating.

The resin exhibits tack-free cure without any effect on secondary bonding and its thixotropy will ensure that it will not slip or drain from vertical surfaces.

Product Specifications

Property	Range	Unit	TM
Appearance	Hazy	—	TM 2265
Viscosity, 23°C Z2, 2s ⁻¹	620-680	mPa.s	TM 2313
Viscosity, 23°C Z2, 50s ⁻¹	590-630	mPa.s	TM 2313
Viscosity, 23°C Z2, 250s ⁻¹	530-560	mPa.s	TM 2313
Solids content, IR	68-71	%	TM 2033
Gel time 25 to 35°C	38-42	min	TM 2625
Cure time 25°C to peak	46-56	min	TM 2625
Peak temperature	110-120	°C	TM 2625

Remarks

Reactivity determined at 25°C with 2g Butanox M50 (Akzo-Nobel) added to 100g of resin

Liquid Resin Typical Properties

Property	Value	Unit	TM
Flash point	34	°C	TM 2800
Shelf life, no init. dark, 25°C	4	Months	—

Typical Values of CSM Laminate

Property	Value	Unit	TM
Tensile strength	47	MPa	ISO 527-2
Tensile modulus	4700	MPa	ISO 527-2
Tensile elongation	1.8	%	ISO 527-2
Flex strength	62	MPa	ISO 178
Flex modulus	4000	MPa	ISO 178
HDT	100	°C	ISO 75-A

Remarks

Curing conditions

Cured with 2% MEKP Catalyst (Akzo-Nobel)

Cured 24h at room temperature and post-cured 16h at 60°C

Storage Guidelines

The resin should be stored indoors in the original, unopened and undamaged packaging, in a dry place at temperatures between 5°C and 30°C.

Shelf life is reduced at higher temperatures and the properties of the resin might change during storage.

The shelf life of styrene containing unsaturated polyesters will be significantly reduced when exposed to light.

Store in dark and in 100% light tight containers only.

Material Safety

A Material Safety Data Sheet of this product is available on request.

Test Methods

Test methods (TM) referred to in the table(s) are available on request.

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Brochures

You can find additional information through Product Guide. For detailed information on the system solution, please consult our Gelcoat Brochure. Both brochures are available from our Business Technical Supports Engineer and Account Manager.

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