

# Synolite™ 1967-G-1

## Low shrinkage DCPD resin, yielding great surface quality in Light RTM

Synolite™ 1967-G-1 is a low viscous unsaturated DCPD based polyester resin ideally suited for Light RTM. Fast resin cure and short cycle times are possible with AAP Peroxide.

The low resin shrinkage results in components with great surface quality.

### Benefits

- Great surface quality
- Short cycle times
- Easy injection because of low viscosity
- DNV approved

## Major Applications

Synolite™ 1967-G-1 is recommended for injection applications with a rigid top-mold to produce high performance constructional laminates. Synolite™ 1967-G-1 can be used with all commonly used types of glass reinforcement.

Synolite™ 1967-G-1 is a medium reactive, pre accelerated resin that gives a relatively low peak exotherm. This resin has been specially developed for better demolding properties and lower shrinkage.

Synolite™ 1967-G-1 can be used for thick and thin laminates and shows a good through cure. Synolite™ 1967-G-1 has very good fiber wetting and impregnation properties.

## Certifications and Approvals

This resin has a Det Norske Veritas approval, grade 2 for boat building.

### Product Specification

Property	Value	Unit	TM
Appearance	Clear		TM 2265
Solids content	62.5 - 65.5	%	TM 2033
Viscosity 23 °C, 100 s <sup>-1</sup>	195 - 220	mPa.s	TM 2013
Gel time 25 until 35 °C	7 - 10	min	TM 2625
Peak time	15 - 21	min	TM 2625
Peak temperature	115 - 145	°C	TM 2625

Viscosity measurement TM 2013 at 23°C: Physica, spindle Z2, shear rate 100 s<sup>-1</sup>, 23°C. Curing conditions TM 2625, 25°C: 2.0 g Medium reactive Methyl Ethyl Ketone Peroxide (MEKP) in 100 g resin.

### Liquid resin typical properties

Property	Value	Unit	TM
Density 25 °C	1150	kg/m <sup>3</sup>	TM 2160
Flash point	33	°C	TM 2800
Stability Solid dark 25 °C	6	month	
Color	Brown	-	

## Unfilled castings typical properties

Property	Value	Unit	TM
Density 23 °C	1200	kg/m <sup>3</sup>	DIN 53479
Tensile strength	70	MPa	ISO 527-2
Tensile modulus	3.8	GPa	ISO 527-2
Elongation at break	2.3	%	ISO 527-2
Flexural strength	130	MPa	ISO 178
Flexural E-Modulus	3.8	GPa	ISO 178
HDT ISO 75 Ae	85	°C	ISO 75 Ae
Metric volume shrinkage	6	%	
Impact strength	15	kJ/m <sup>2</sup>	ISO 179

Cured with 1% Medium reactive Methyl Ethyl Ketone Peroxide (MEKP). Post cured 24 h at RT followed by 24 h at 70°C.

## Application Guidelines

Before use, the resin should be conditioned and stirred at well defined, application dependent temperature (usually 15°C minimum for a MEKP / Cobalt cure).

## 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 and the properties might change during storage. 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.

## ISO 9001:2015 Certified

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### Contact us for more information

We will help you choose the right resin solution.

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