

Synolite™ 1967-G-9

Low shrinkage DCPD resin, yielding great surface quality in Vacuum infusion

Synolite™ 1967-G-9 is a low viscous unsaturated DCPD based polyester resin ideally suited for Vacuum infusion. The low resin shrinkage results in components with great surface quality.

The resins allows for making components with high fiber loading and hence great strength and stiffness.

Benefits

- Great surface quality
- Easy injection because of low viscosity
- DNV approved
- Long gel time for making large components

Major Applications

Synolite™ 1967-G-9 is recommended for injection applications with foil as top-mold to produce high performance constructional laminates. Synolite™ 1967-G-9 can be used with all commonly used types of glass reinforcement.

Synolite™ 1967-G-9 is a medium reactive resin with a low peak exotherm and relatively low shrinkage. Due to a good through-cure it can be used for thick and thin laminates. Synolite™ 1967-G-9 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 Specifications

Property	Value	Unit	TM
Appearance	Clear		TM 2265
Solids content	60 - 63	%	TM 2033
Viscosity 23 °C, 100 s ⁻¹	135 - 165	mPa.s	TM 2013
Gel time 25 until 35 °C	43 - 48	min	TM 2625
Peak time	54 - 68	min	TM 2625
Peak temperature	115 - 145	°C	TM 2625

Viscosity measurement TM 2013 at 23°C: Physica, spindle Z2, shear rate 100 s⁻¹, 23°C. Curing conditions TM 2625, 25°C: 3.0 g Medium reactive Methyl Ethyl Ketone Peroxide (MEKP) in 100 g resin.

Liquid			
Property	Value	Unit	TM
Density 20 °C	1080	kg/m ³	TM 2160
Flash point	33	°C	TM 2800
Stability (Solid, dark, 25 °C)	6	month	

Solid Unfilled			
Property	Value	Unit	TM
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	85	°C	ISO 75A
Impact strength	15	kJ/m ²	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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