

Synolite™ 1967-G-12

DCPD resin for RTM/Infusion applications. Good surface quality and easy processing

Synolite™ 1967-G-12 is an unsaturated polyester resin based on DCPD. The resin is used for making components through RTM and vacuum infusion processes, providing good surface quality and easy processing.

Components based on Synolite™ 1967-G-10 resin feature great surface finish.

Benefits

- Great surface quality
- Surface smoothness
- Easy processing in medium volume series
- Performance track record

Major Applications

Synolite™ 1967-G-12 has been developed for the production of high quality composite laminates by vacuum assisted infusion with foil as top mold.

Synolite™ 1967-G-12 is a medium reactive, preaccelerated resin with relative low exothermic peak. The resin is in especial suitable for thin and thick laminates and features good through cure.

Synolite™ 1967-G-12 has excellent fiber wetting and impregnates glass fiber reinforcement materials very fast. The resin can be used with all commonly used glass fiber reinforcement materials.

Certifications and Approvals

Synolite™ 1967-G-12 is approved by DNV-GL and Lloyd's Register for use in Marine applications. Synolite™ 1967-G-12 complies with the requirements of type 1120 as laid down in DIN 16946/2.

Product Specifications

Property	Value	Unit	TM
Appearance	Clear		TM 2265
Solids content	61 - 64	%	TM 2033
Viscosity 23 °C, 100 s ⁻¹	260 - 300	mPa.s	TM 2013
Gel time 25 until 35 °C	41 - 46	min	TM 2625
Peak time	52 - 66	min	TM 2625
Peak temperature	130 - 160	°C	TM 2625

Viscosity measurement: Physica Z2/100s-1/23°C Reactivity measurement: 3.0 g Medium reactive Methyl Ethyl Ketone Peroxide (MEKP) added to 100 g resin

Liquid resin typical properties

Property	Value	Unit	TM
Flash point	33	°C	TM 2800
Stability (no initiator, dark, 25°C)	6	month	
Color	Brown	-	



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	90	°C	ASTM D648
Metric volume shrinkage	6	%	
Impact strength	15	kJ/m²	ISO 179

Cured with 1.0 % Medium reactive Methyl Ethyl Ketone Peroxide (MEKP). Cured 24h at RT followed by 24 h at 70°C and 24 h at 100°C.

Application Guidelines

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

Storage Guidelines

The resin should be stored indoors in a dry place at tempera

tight and undamaged packaging.

The properties of the resin may change slightly during storag

Material Safety

A Safety Data Sheet (SDS) 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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