

Synolite™ 1967-G-5

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

Synolite™ 1967-G-5 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
- Used for Marine because of DNV approval
- Medium long gel time for making medium to large components
- Performance reliability

Major Applications

Synolite™ 1967-G-5 is recommended for injection applications with foil as top-mold to produce high performance constructional laminates. Synolite™ 1967-G-5 can be used with all commonly used types of glass reinforcement.

Synolite™ 1967-G-5 is a medium reactive resin with a low peak exotherm and relatively low shrinkage. Due to the good through-cure it can be used for thick and thin laminates. The resin 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 | 145 - 170 | mPa.s | TM 2013 |
| Gel time 25 until 35 °C | 39 - 46 | min | TM 2625 |
| Peak time | 56 - 69 | min | TM 2625 |
| Peak temperature | 100 - 135 | °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: 2.0 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 a dry place at temperature tight and undamaged packaging.

The properties of the resin may change slightly during storage.

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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