

Synolite® 1866-A-1

Iso/NPG polyester resin for Solid surface applications

Synolite 1866-A-1 is a high reactivity, Iso/NPG resin, use to make solid surface components like sheets and bowls.

This resin has been designed for producing solid color and granite effects.

Benefits

- Versatility for creating personalized colors and color effects
- Flexibility to design unique forms and shapes
- Resistance to thermal shock
- Great for making granite effects in solid surface
- Resistance to UV, staining, and to chemicals

Major Applications

Synolite® 1866-A-1 is particularly suitable for the production of solid surface casting applications.

Product Specifications

Property	Value	Unit	TM
Appearance	Clear		TM 2265
Solids content	63 - 67	%	TM 2033
Viscosity TM V227.05	750 - 850	mPa.s	TM V227.05
Gel time 25 until 35 °C	20 - 24	min	TM 2625
Peak time	40 - 50	min	TM 2625
Peak temperature	90 - 120	°C	TM 2625

Viscosity measurement: LV#2, 30 rpm, 25°C.

Reactivity determined with 1.0 g (MEKP) Medium reactive Methyl Ethyl Ketone Peroxide added to 100g resin.

Liquid resin typical properties

Property	Value	Unit	TM
Density 23 °C	1100	kg/m ³	TM 2160
Flash point	33	°C	TM 2800
Stability (no initiator, dark, 25°C)	6	month	

Unfilled castings typical properties

Property	Value	Unit	TM
Tensile strength	61	MPa	ISO 527-2
Tensile modulus	3.5	GPa	ISO 527-2
Elongation at break	2	%	ISO 527-2
Flexural strength	114	MPa	ISO 178
Flexural E-Modulus	3.6	GPa	ISO 178
HDT	79	°C	ASTM D648
Tg	112	°C	DIN 53445

Cured with 1.0 gram (AAP) Acetylacetone peroxide and 0.1 gram Cobalt accelerator (1%) added to 100 g resin.
Post cured 24 hrs. at room temperature followed by 24 hrs. at 100°C.

Storage Guidelines

The resin should be stored indoors in a dry place at temperatures between 5°C and 30°C, in the original, unopened, 100% light-tight and undamaged packaging.

The properties of the resin may change slightly during storage. Shelf life is shorter at higher temperatures.

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 to choose the right resin solution.

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