SYNOLITE™ 1967-G-1

CHEMICAL/PHYSICAL NATURE

Synolite™ 1967-G-1 is a low viscous unsaturated DCPD based polyester resin.

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.

PRINCIPAL PROPERTIES

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.

APPROVALS

Synolite™ 1967-G-1 can meet Det Norske Veritas, grade 2 for boat building.

PRODUCT SPECIFICATIONS UPON DELIVERY

Property	Range	Unit	тм
Appearance	clear	-	2265
Viscosity, 23°C	195 - 220	mPa.s	2013
Solids content, IR	62.5 - 65.5	%	2033
Gel time from 25 to 35°C	7.0 - 10.0	minutes	2625
Cure time from 25°C to peak	15 - 21	minutes	2625
Peak temperature	115 - 145	°C	2625

REMARKS

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 Butanox M-50 in 100 g resin.

PROPERTIES OF THE LIQUID RESIN (TYPICAL VALUES)

Property	Value	Unit	ТМ
Density, 25°C	1200	kg/m³	2160
Color on sight	Brown	÷	÷
Flash point	33	°C	2800
Stability, no init., dark, 25°C	6	months	-

PROPERTIES OF CAST UNFILLED RESIN (TYPICAL VALUES)

Property	Value	Unit	тм
Tensile strength	70	MPa	ISO 527-2
Tensile E-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
Heat Deflection Temp. (HDT)	85	°C	ISO 75-A
Impact res unnotched sp.	15	kJ/m²	ISO 179
Barcol hardness GYZJ 934-1	45	-	2604 1
Density, 23°C	1165	kg/m³	-
Volume shrinkage	6	%	-

CURING CONDITIONS

Cured with 1% Butanox M-50. Post cured 24 hrs. at RT followed by 24 hrs. at 70°C.

REMARKS ON CURING AGENTS

Butanox M-50 is an AKZO Nobel product, methyl ethyl ketone peroxide (MEKP).

GUIDELINES BEFORE USE

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

Aliancys is a leading global company active in the sales of Quality Resins for composite applications. Together with its customers, Aliancys is pushing the limits of both composite part manufacturing and performance. Taking an integral approach to new product development, Aliancys is using its full expertise in resin chemistry, material science, and component manufacturing for shaping new applications in composites. So let's talk and increase our mutual business success, both today and tomorrow. More information on www.aliancys.com

PRODUCT INQUIRY? PLEASE CLICK HERE

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