



Synolite[™]1967-G-6

CHEMICAL/PHYSICAL NATURE

Synolite[™] 1967-G-6 is a low viscous unsaturated DCPD based polyester resin.

MAJOR APPLICATIONS

Synolite[™] 1967-G-6 is recommended for injection applications with a rigid top-mold to produce high performance constructional laminates.

Synolite[™] 1967-G-6 can be used with all commonly used types of glass reinforcement. This resin can meet Det Norske Veritas, grade 2 for boat building.

PRINCIPAL PROPERTIES

Synolite[™] 1967-G-6 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-6 can be used for thick and thin laminates and shows a good through cure. Synolite[™] 1967-G-6 has very good fiber wetting and impregnation properties. Due to the low viscosity, fillers can be used easily.

PRODUCT SPECIFICATIONS UPON DELIVERY

Property	Range	Unit	тм
Appearance	Sl. hazy	-	2265
Viscosity, 23°C	145-170	mPa.s	2013
Solids content, IR	61.5-64.5	%	2033
Gel time from 25 to 35°C	41-48	Minute	2625
Cure time from 25°C to peak	54-66	Minute	2625
Peak temperature	100-130	°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	1140	kg/m³	2160
Color on sight	Brown	-	-
Flash point	33	°C	2800
Stability, no init., dark, 25°C	6	Month	-



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.

* 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 monomer containing unsaturated polyesters will be significantly reduced when exposed to light. Store in dark and in 100% light tight containers only. From DCPD resins it is known that skin formation occurs when exposed to air ventilation or replacement from the original packaging.

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.

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