Monofiber
KOMPOSIT INDUSTRIENS BEDSTE BRANDS

SYNOLITE™ 1967-G-9

CHEMICAL/PHYSICAL NATURE
Synolite™ 1967-G-9 is a medium viscous unsaturated DCPD based polyester resin, dissolved in styrene. Synolite™ 1967-G-9 has a medium reactivity. The resin is pre-accelerated.

MAJOR APPLICATIONS
Synolite™ 1967-G-9 is recommended for injection applications with foil as top-mold to produce high performance constructional laminates.
Synolite™ 1967-G-9 can be used with all commonly used types of glass reinforcement

PRINCIPAL PROPERTIES
Synolite™ 1967-G-9 is a medium reactive resin with a low peak exotherm and relatively low shrinkage. Due to a good through cure it can be used for thick and thin laminates.
Synolite™ 1967-G-9 has very good fiber wetting and impregnation properties.

APPROVALS
This resin can meet Det Norske Veritas, grade 2 for boat building.

PRODUCT SPECIFICATIONS UPON DELIVERY

Property	Range	Unit	TM
Appearance	clear	-	2265
Viscosity	135 – 165	mPa.s	2013
Solid content	60 – 63	%	2033
Gel time	43 – 48	Min	2253
Peak time	54 – 68	Min	2253
Peak temperature	115 – 145	°C	2253

REMARKS
TM 2013: Viscosity measurement: Z 2/100 s^{-1}/23°C
Reactivity determined with 3g Butanox M50 (AKZO-Nobel) added to 100 g of resin

PROPERTIES OF THE LIQUID RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Density, 20°C	1080	Kg/m^3	2150
Flash point	33	°C	2800
Stability, no init., dark, 25°C	6	month	-

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PROPERTIES OF CAST UNFILLED RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Tensile strength	70	MPa	ISO 527-2
Mod. of elasticity in tension	3,8	GPa	ISO 527-2
Elongation at break	2,3	%	ISO 527-2
Flexural strength	130	MPa	ISO 178
Mod. of elasticity in bending	3,8	GPa	ISO 178
Heat Deflection Temp. (HDT)	85	°C	ISO 75-A
Impact res. - unnotched sp.	15	kJ/m^2	ISO 179
Barcol Hardness	45	-	-

CURING CONDITIONS

Cured with: 1,0 ml Methylethylketonperoxide added to 100 g resin.
Post cured: 24 hrs. at RT followed by and 24 hrs. at 70 °C

PROCESSING

The final state of cure may be optimized by post curing at elevated temperatures (e.g. 80°C) for several hours.

GUIDELINES BEFORE USE

The resin should be conditioned at a well-defined application dependent temperature (usually 15°C minimum for a MEKP 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.