

SYNOLITE™ 8488-G-11

CHEMICAL/PHYSICAL NATURE

Synolite™ 8488-G-11 is an unsaturated polyester based on DCPD, dissolved in styrene. The resin is promoted for excellent through cure.

MAJOR APPLICATIONS

Synolite™ 8488-G-11 was especially developed for use in resin transfer molding (RTM) and infusions processes.

PRINCIPAL PROPERTIES

Synolite™ 8488-G-11 is designed for prolonged gel times with comparatively fast through cure at outstanding polymerization degree.

Despite the high polymerization degree Synolite™ 8488-G-11 features a very low peak exotherm.

Synolite™ 8488-G-11 is especially designed for GRP parts with excellent surface quality in the Marine segment.

APPROVALS

Synolite™ 8488-G-11 is approved by Det Norske Veritas for the use in Marine applications.

PRODUCT SPECIFICATIONS UPON DELIVERY

Property	Range	Unit	TM
Viscosity, 20 s-1, 23°C	120 – 150	mPa.s	2313
Solids content, IR	59 – 62	%	2033
Cure time from 25 to 35°C	45 – 49	Min	2625
Cure time from 25°C to peak	78 - 92	Min	2625
Peak temperature	40 – 65	°C	2625

REMARKS

Viscosity measurement: Physica MC1+/Z2/23°C

Curing conditions: 3,0 g Butanox M 50 added to 100 g of resin.

PROPERTIES OF THE LIQUID RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Stability, no init., dark 25 °C	6	Mont h	-
Flammable point	33	°C	2800
Density 23 °C	1050	kg/m ³	2160

PROPERTIES OF CAST UNFILLED RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Hardness	40	Barcol	2604
Tensile strength	66	MPa	ISO 527-2
Tensile-E-modulus	3,5	GPa	ISO 527-2
Elongation at break	3,0	%	ISO 527-2
Heat distortion Temperature	64	°C	ISO 75-A

CURING CONDITIONS

Cured 24 h at RT and 16 h at 40 °C.

Note: HDT of 78 °C cured with 1,7 ml Butanox M 50 (AKZO-Nobel) added to 100 g of resin and post cured 24 h at 70 °C

GUIDELINES BEFORE USE

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

PRODUCT INQUIRY? PLEASE CLICK HERE

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