

SYNOLITE™ 8388-L-7

CHEMICAL/PHYSICAL NATURE

Synolite 8388-L-7 is a styrene containing resin , low viscous ,pre-accelerated , promoted, thixotropic, medium reactive DCPD polyester resin. A color change system is present for the benefit of spray-up applications.

MAJOR APPLICATIONS

Synolite™ 8388-L-7 has been developed for hand lay-up and spray-up applications.

Thick laminates can be made in one go due to low peak exotherm.

PRINCIPAL PROPERTIES

Synolite™ 8388-L-7 is used for the realization of laminates with a short demolding time, a good through cure , and also with a low exothermic development compared to a standard resin.

APPROVALS

Synolite™ 8388-L-7 complies according to Rina under the references Synolite™ 8388-I-1 and I-2.

PRODUCT SPECIFICATIONS UPON DELIVERY

Property	Range	Unit	TM
Appearance	hazy	-	2265
Solid content, IR	61 - 63	%	2033
Acid value determination diluted	13 - 22	mg KOH/g	2401
Gel time from 25 to 35°C	18 - 22	minutes	2625
Cure time from 25°C to peak	50 - 60	minutes	2625
Peak temperature	40 - 80	°C	2625
Viscosity, 2 sec -1	800 - 1150	mPa.s	2313
Viscosity, 20sec-1	300 - 370	mPa.s	2313
Viscosity, 250 sec-1	200 - 230	mPa.s	2313

REMARKS

Viscosity measurement :TM 2313 : at 23°C

Curing conditions :TM 2625: at 25°C,

100g resin + 2,0 g de Butanox M 50

PROPERTIES OF THE LIQUID RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Density, 23°C	Appr. 1100	kg/m ³	2160
Color	Blue	-	4073
Flash point	Appr. 33	°C	2800
Stability, no init., dark, 25°C	3	months	-

PROPERTIES OF CAST UNFILLED RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Tensile strength	66	MPa	ISO 527-2
Tensile E-modulus	3,5	GPa	ISO 527-2
Elongation at break	3	%	ISO 527-2
Heat Deflection Temp. (HDT)	64	°C	ISO 75-A
Hardness	40	Barcol	2604

CURING CONDITIONS

Post cured 16 hours at 40°C.

Note : HDT = 78°C with 1,74 g de PMEC and 24 hours at 23 °C + 24 hours at 70 °C.

TYPICAL CURING CHARACTERISTICS

Barcol hardness development at 21°C with a laminate based on Synolite™ 8388-L-7 with 2 and 4 mat 450 g/m² (M5 type from Vetrotex) , glass/resin ratio = 1 / 2 and with 1,74 % weight of Butanox M 50.

Barcol Hardness (GYZ) 934-1) after

	2 mats	4 mats
- 2 hours	0	0 - 10
- 3 hours 30 min	0 - 10	20 - 30
- 4 hours	10 - 20	20 - 30
- 6 hours	15 - 25	25 - 35
- 24 hours	30-40	35 - 45

GUIDELINES BEFORE USE

The resin should be conditioned at 15°C minimum before use to obtain a sufficient cure when MEKP is used as a curing system. Stir the resin mechanically before use. Do not use air bubbles to stir the resin.

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

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