

Synolite™ 8388-L-7

Multi-purpose Hand lay-up resin with low shrinkage used for thick laminates

Synolite™ 8388-L-7 is a versatile DCPD resin for Hand lay-up and Spray-up processes, particularly suited for making thick laminates.

Parts made from this resin feature great surface quality because of inherent low shrinkage. The resin is used for Marine applications and is RINA approved.

Benefits

- Great for making thick laminates
- Excellent wet out of CSM mats
- Manufacturing of both thin and thick laminates
- Easy trimming capability independent of thickness
- Suitable for Marine applications (RINA approval)

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.

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.

Certifications and Approvals

Synolite™ 8388-L-7 is approved for the use in boat building by Registro Italiano Navale (R.I.Na).

Product Specifications

Property	Value	Unit	TM
Appearance	Hazy		TM 2265
Solids content	61 - 63	%	TM 2033
Viscosity 23 °C, 2 s ⁻¹	900 - 1200	mPa.s	TM 2313
Viscosity 23 °C, 20 s ⁻¹	320 - 390	mPa.s	TM 2313
Viscosity 23 °C, 250 s ⁻¹	200 - 230	mPa.s	TM 2313
Acid value	13 - 22	mg KOH/g	TM 2401
Gel time 25 until 35 °C	18 - 22	min	TM 2625
Peak time	50 - 60	min	TM 2625
Peak temperature	40 - 80	°C	TM 2625

Viscosity measurement: Z2/23°C. Curing conditions at 25°C: 100g resin + 2,0 g (MEKP) Medium reactive Methyl Ethyl Ketone Peroxide.

Liquid			
Property	Value	Unit	TM
Density 23 °C	1100	kg/m ³	TM 2160
Flash point	33	°C	TM 2800
Stability (Solid, dark, 25 °C)	3	month	

Solid Unfilled			
Property	Value	Unit	TM
Tensile strength	66	MPa	ISO 527-2
Tensile modulus	3.5	GPa	ISO 527-2
Elongation at break	3	%	ISO 527-2
HDT	78	°C	ISO 75A

Curing conditions: 1.74g (MEKP) Medium reactive Methyl Ethyl Ketone Peroxide added to 100 g of resin. After 24h at RT, a postcure of 16h at 40°C was applied. For the HDT measurement, a postcure of 24 h. at 70°C was applied.

Application Guidelines

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 content 33 % and with 1.74 % weight of (MEKP) Medium reactive Methyl Ethyl Ketone Peroxide.

Barcol Hardness (GYZJ 934-1) for 2 and 4 mats respectively:

2 hrs: 0; 0 - 10.
 3.5 hrs: 0 - 10; 20 - 30.
 4 hrs: 10 - 20; 20 - 30.
 6 hrs: 15 - 25; 25 - 35.
 24 hrs: 30-40; 35 - 45.

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 before use.

Storage Guidelines

The resin should be stored indoors in a dry place at tempera tight and undamaged packaging.

The properties of the resin may change slightly during storag

Material Safety

A Safety Data Sheet (SDS) of this product is available on request.

Test Methods

Test methods (TM) referred to in the table(s) are available on request.

ISO 9001:2015 Certified

The Quality Management Systems at every AOC manufacturing facility have been certified as meeting ISO 9001:2015 standards. This certification recognizes that each AOC facility has an internationally accepted model in place for managing and assuring quality. We follow the practices set forth in this model to add value to the resins we make for our customers.

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Contact us for more information

We will help you choose the right resin solution.

Tel.: + 45 4485 0500
web@monofiber.dk

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