

Synolite™ 8388-P-7

Multi-purpose Hand lay-up resin with low shrinkage and Low Styrene Emission capability

Synolite™ 8388-P-7 is a versatile low viscous DCPD resin for Hand lay-up and Spray-up processes with Low Styrene Emission (LSE) system.

The resin provides great surface quality because of inherent low shrinkage. It is particularly suited for Marine applications and is DNV approved.

Benefits

- Components with great surface quality
- Excellent wet out of powder-bond CSM mats
- Manufacturing of both thin and thick laminates
- Easy trimming capability independent of thickness
- Better workshop conditions through low Styrene emission

Major Applications

Synolite™ 8388-P-7 has been especially developed for hand lay-up and spray-up applications to produce high performance constructional laminates.

Synolite™ 8388-P-7 combines good mechanical properties with optimal process ability. This resin shows very good fiber wetting and impregnation properties. Thick laminates can be made in one go due to the low exothermic heat development, good through cure and relatively low shrinkage.

An optimized LSE system has been developed to get excellent Low Styrene Emission. A color change system is present for the benefit of spray-up applications.

Synolite™ 8388-P-7 can be used with powder and emulsion bound mats.

Certifications and Approvals

Synolite™ 8388-P-7 does meet "Det Norske Veritas" (DNV) Tentative Rules for Classification and Classification of Boats 1997, Grade 2.

Product Specifications

Property	Value	Unit	TM
Appearance	Hazy		TM 2265
Solids content	60 - 63	%	TM 2026N
Viscosity 23 °C, 2 s ⁻¹	920 - 1380	mPa.s	TM 2313
Viscosity 23 °C, 20 s ⁻¹	310 - 380	mPa.s	TM 2313
Viscosity 23 °C, 250 s ⁻¹	180 - 210	mPa.s	TM 2313
Acid value	13 - 22	mg KOH/g	TM 2401
Gel time 25 until 35 °C	24 - 29	min	TM 2625
Peak time	45 - 65	min	TM 2625
Peak temperature	75 - 115	°C	TM 2625

Viscosity measurement: Physica MC1+/Z2/23°C. Curing conditions: 2,0 g Medium reactive Methyl Ethyl ketone peroxide (MEKP) added to 100 g of resin.

Liquid

Property	Value	Unit	TM
Density 23 °C	1100	kg/m ³	TM 2160
Flash point	33	°C	TM 2800
Stability (no initiator, dark, 25°C)	6	month	
Color	Blue	-	

Solid Unfilled

Property	Value	Unit	TM
Density 23 °C	1170	kg/m ³	DIN 53479
Tensile strength	70	MPa	ISO 527-2
Tensile modulus	3.7	GPa	ISO 527-2
Elongation at break	2.2	%	ISO 527-2
Flexural strength	125	MPa	ISO 178
Flexural E-Modulus	3.7	GPa	ISO 178
HDT	85	°C	ASTM D648
Metric volume shrinkage	6	%	ISO 3521
Impact strength	18	kJ/m ²	ISO 179

Cured with 1% Medium reactive Methyl ethyl Ketone Peroxide (MEKP) peroxide. Post cured 24 h at RT followed by 24 h at 70°C.

Application Guidelines

Synolite™ 8388-P-7 contains barrier forming agents to reduce emission of styrene. These agents may reduce the bonding strength of over laminates. Good strength can be obtained with over laminating of the base laminate after delayed lay-up if the surface is not too resin rich. In other cases the surface

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 temperature tight and undamaged packaging.

The properties of the resin may change slightly during storage.

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.

ISO 9001:2015 Certified

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Contact us for more information

We will help you to choose the right resin solution.

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