

SYNOLITE™ 8388-V-1

CHEMICAL/PHYSICAL NATURE

Synolite™ 8388-V-1 is a DCPD based medium reactive unsaturated polyester dissolved in styrene.

MAJOR APPLICATIONS

Synolite™ 8388-V-1 is specially developed for filled applications like polymer concrete (thresholds, window sills etc.). Due to the good through cure properties up to 60% accelerator can be reduced. Synolite™ 8388-V-1 has excellent outdoor properties.

PRINCIPAL PROPERTIES

Synolite™ 8388-V-1 can be used for thick and thin products and gives low shrinkage. All common types of fillers can be used. Normally 5-12% resin usage can be saved due to the excellent wetting properties.

PRODUCT SPECIFICATIONS UPON DELIVERY

Property	Range	Unit	TM
Appearance	Sl. Hazy	-	2265
Viscosity, 23°C	190 - 230	mPa.s	2013
Solids content, IR	63 - 66	%	2033
Gel time from 25 to 35°C	8.5 - 11.5	Min	2625
Cure time from 25°C to peak	13 - 18	Min	2625
Peak temperature	110 - 145	°C	1625

REMARKS

Viscosity measurement: Z2/100 s⁻¹/23°C

The curing characteristics are obtained using 1.0 g Accelerator NL 49 P (AKZO-Nobel) and 1.0 g Butanox M 50 (AKZO-Nobel) added to 100 g of resin.

PROPERTIES OF THE LIQUID RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Density, 23°C	appr. 1180	kg/m ³	2160
Color on sight	Brown	-	-
Flash point	appr. 33	°C	2800
Shelf life, no init., dark, 25°C	3	Month	-

PROPERTIES OF CAST UNFILLED RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Tensile strength	70	MPa	ISO 527-2
Tensile E-modulus	3.8	GPa	ISO 527-2
Elongation at break	2.2	%	ISO 527-2
Flexural strength	130	MPa	ISO 178
Flexural E-Modulus	3.8	GPa	ISO 178
Heat deflection temp. (HDT)	83	°C	ISO 75-Ae
Hardness (GYZJ 934-1)	45	Barcol	DIN EN 59

CURING CONDITIONS

Cured with 1.0% NL49 P and 1.0 % Butanox M50
Post cured 24 hours at room temperature followed by 24 hours at 70°C.

GUIDELINES BEFORE USE

Before use, the resin should be conditioned at a well-defined, application dependent temperature (usually 15°C minimum for a MEKP / Co cure). Stir the product before blending.

Synolite™ 8388-V-1 is not pre-accelerated, thus cobalt or amine accelerator have to be added by the processor for curing at room temperatures.

STORAGE GUIDELINES

Synolite™ 8388-V-1 should be stored in tightly closed containers in a cool, and dry place. 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. Shelf life is reduced at higher temperatures and the properties of the resin might change during storage. From DCPD based resins it is known that skin formation can occur when exposed to air ventilation or replacement from the original packaging.

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.

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PRODUCT INQUIRY? PLEASE CLICK HERE

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