

SYNOLITE™ 5750-A-4

CHEMICAL/PHYSICAL NATURE

Synolite™ 5750-A-4 is a DCPD based, pre-accelerated, non-thixotropic, unsaturated polyester resin in styrene monomer and features low viscosity.

MAJOR APPLICATIONS

Synolite™ 5750-A-4 is suitable for general casting applications and can be used specifically for sanitary ware and polymer concrete articles with a gel coat.

PRINCIPAL PROPERTIES

Synolite™ 5750-A-4 impregnates well fillers and allows high filler loadings despite good flow ability of the final mixture.

Synolite™ 5750-A-4 features a high tenacity and allows the production of big size sanitary ware nearly free of stress.

Synolite™ 5750-A-4 is pre-accelerated and allows easy gel time setting by variation of the hardener between 15 – 40 °C.

PRODUCT SPECIFICATIONS UPON DELIVERY

Property	Range	Unit	TM
Appearance	Yellow to greenish	-	2265
Solids content, IR	58.0 - 62.0	%	2033
Viscosity	170 - 190	mPa.s	2013
Time from 25 °C – 35 °C	11 - 15	Min	2625
Time from 25 °C - Peak	16 - 27	Min	2625
Peak temperature	110 – 150	°C	2625

REMARKS

Viscosity measurement: Z2/100s⁻¹/23°C

Reactivity measurement: 1.0 g Butanox M-50 added to 100 g resin.

PROPERTIES OF THE LIQUID RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Flash point	33	°C	2800
Density, 20°C	1100	Kg/m ³	2160
Stability, no init., dark, 25°C	6	months	-

GUIDELINES BEFORE USE

Synolite™ 5750-A-4 should be conditioned at a well-defined, application dependent temperature (usually 15°C minimum for a MEKP / Co cure). Stir the product before blending.

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.

With DCPD resins there is a tendency for skin formation if exposed to air. Whilst products are formulated to reduce this characteristic, exposure to air and ventilation in bulk storage facilities should be minimized.

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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