SYNOLITE™ 5750-A-3

CHEMICAL/PHYSICAL NATURE

Synolite™ 5750-A-3 is a DCPD based, pre-accelerated, non-thixotropic, unsaturated polyester resin in styrene monomer.

MAJOR APPLICATIONS

It is designed for general casting applications and can be used specifically for shower tray casting behind a gel coat or primed ABS capped acrylic.

PRINCIPAL PROPERTIES

Synolite™ 5750-A-3 is a resilient resin with controlled exotherm. It is characterized by its high filler acceptance and rapid cure rate.

PRODUCT SPECIFICATIONS UPON DELIVERY

Property	Range	Unit	TM
Viscosity, 23°C	170 - 190	mPa.s	2013
Solids content, IR	63.5 - 66.5	%	2033
Gel time from 25 to 35°C	8.5 - 9.5	minutes	2625
Cure time from 25°C to peak	12.5 - 16.5	minutes	2625
Peak temperature	120 - 140	°C	2625
Cure time from 35°C to peak	Max 6.5	minutes	2625

REMARKS

TM 2013: spindle Z2, speed 100 s-1, program
TM 2026: 1% in Butanox M50

PROPERTIES OF THE LIQUID RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Stability, no init., dark,	3	months	-
Flash point	32	°C	2800

PROPERTIES OF CAST UNFILLED RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Tensile strength	40	MPa	ISO 527-2
Tensile E-modulus	3.3	GPa	ISO 527-2
Elongation at break	1.5	%	ISO 527-2
Flexural strength	80	MPa	ISO 178
Flexural E-Modulus	3.0	GPa	ISO 178
Heat Deflection Temp. (HDT)	82	°C	ISO 75-A
Hardness Barcol 934.1	42	Barcol	2604

CURING CONDITIONS

Casting cured overnight at ambient and post-cured for 2 hrs. at 90°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.

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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