

ATLAC® PREMIUM 100

CHEMICAL/PHYSICAL NATURE

Atlac® Premium 100 is a medium viscous, high reactive vinyl ester resin dissolved in methacrylate's.

The resin is styrene-free.

MAJOR APPLICATIONS

Atlac® Premium 100 has been especially developed for hand lay up application.

SPECIAL PROPERTIES

The chemical composition of Atlac® Premium 100 makes it ideal for applications where high emissions of reactive solvents are not acceptable, e.g. on mono-styrene containing resins.

PRODUCT SPECIFICATIONS UPON DELIVERY

Property	Range	Unit	TM
Appearance	clear to sl. hazy	-	2265
Viscosity	420 – 520	mPa.s	2013
Reactivity – Gel time	16 – 24	Min	2625
Reactivity – Peak time	18 – 27	Min	2625
Reactivity – Peak temp.	127 – 156	°C	2625

REMARKS

TM2013 Z2/ 100 s-1 /23°C

TM2625: 100 g resin / 2g NL49P / 2g But LPT

Acid Value, typical value = 9 – 14 mg KOH/g, TM2401

PROPERTIES OF THE LIQUID RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Density	ca. 1100	Kg/m ³	2160
Flash point	113	°C	2800
Stability, no init., dark, 25°C	6	Month	-

PROPERTIES OF CAST UNFILLED RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Tensile strength	61	MPa	ISO 527-2
Tensile E-modulus	3.1	GPa	ISO 527-2
Elongation at Break	2.4	%	ISO 527-2
Flexural Strength	112	MPa	ISO 178
Flexural E-Modulus	3.2	GPa	ISO 178
Elongation in flex	3.9	%	ISO 178
Heat Deflection Temperature	101	°C	ISO 75-A

CURING CONDITIONS

Cured with 0.2% Accelerator NL-53 + 2% Butanox LPT.
Post cured 24 hrs. at 60°C 24 hrs. at 80°C.

All curing agents mentioned are AKZO Nobel products:
Butanox LPT: Methyl ethyl keton peroxide
Accelerator NL-53: Cobalt(II)2-ethylhexanoate 10% solution.

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).

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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