

Product Data Sheet

Atlac Premium 600

Chemical/physical nature

Atlac Premium 600 is a medium viscous, high reactive, thixotropic vinylester resin dissolved in methacrylates.

Major applications

Atlac Premium 600 has been especially developed for the warm cure pipe rehabilitation process.

Principal properties

The chemical composition of Atlac Premium 600 is responsible for good hydrolysis and chemical resistance performance.

Atlac Premium 600 offers a high resistance to solvents, good retention of strength and toughness at elevated temperatures.

Product specifications upon delivery

Property	Range	Unit	TM
Gel time	14 - 20	min	2259
Peak time	23 - 35	min	2259
Peak temperature	110 - 175	°C	2259
Appearance	Hazy	-	2265
Pot life	40 - 120	min	2301B
Viscosity at 2 s-1	2500 - 3500	mPa.s	2313
Viscosity at 20 s-1	1200 - 1500	mPa.s	2313
Viscosity at 250 s-1	800 - 1000	mPa.s	2313
Viscosity at 50 s-1	900 - 1100	mPa.s	2313
Acid value, as such	10 - 15	mg KOH/g	2401

Remarks

TM2313: Physica, spindle Z2, 23°C, 250 s-1 = Z3.
 TM2259: 60°C: 100 g resin + 1.0 g Accelerator NL49P + 0.8 g Perkadox 16 + 1.0 g Trigonox C.
 TM2301B: 50°C: 100 g resin + 1.0 g Accelerator NL49P + 0.8 g Perkadox 16 + 1.0 g Trigonox C.

Properties of the liquid resin (typical values)

Property	Value	Unit	TM
Density, 23°C	1100	kg/m ³	2160
Colour on sight	Yellow/greenish	-	-
Flash point	113	°C	2800
Stability, no init., dark, 25°C	6	months	-

Properties of cast unfilled resin (typical values)

Property	Value	Unit	TM
Tensile strength	66	MPa	ISO 527-2
Tensile E-modulus	3.3	GPa	ISO 527-2
Elongation at break	2.5	%	ISO 527-2
Flexural strength	120	MPa	ISO 178
Flexural Modulus	3.4	GPa	ISO 178
Heat Deflection Temp. (HDT)	103	°C	ISO 75-A

Remarks

Cured at 60°C with 1.0% Accelerator NL49P + 0.8% Perkadox 16 + 1.0% Trigonox C. Post cured 24 hrs at 60°C followed by 24 hrs 80°C.

Remarks on curing agents

All curing agents mentioned are AKZO Nobel products: Perkadox 16 is bis (4-tert-butylcyclohexyl) peroxydicarbonate, Trigonox C is tert-butylperbenzoate,

Guidelines before use

Stir the resin before use.

Storage guidelines

The resin should be stored in a dark and dry place at temperatures between 5°C and 25°C. Exposure to direct sunlight should be avoided. Shelf life is reduced at higher temperatures and the properties of the resin might change during storage.

Material Safety

A material safety data sheet for the product is available on request.

Test methods

Test methods (TM) referred to in the table(s) are available on request.

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