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Product Data Sheet



Atlac Premium 450

Chemical/physical nature Atlac Premium 450 is a medium viscous, high reactive, thixotropic light curing vinylester resin dissolved in methacrylates.

Major applications

Atlac Premium 450 has been especially developed for the Blue LED cure pipe rehabilitation process.

Principal properties

The chemical composition of Atlac Premium 450 is responsible for good hydrolysis and chemical resistance performance.

Product specifications upon delivery

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Property	Range	Unit	TM		
Peak time	3.5 - 6.5	min	2500		
Peak temperature	115 - 125	°C	2500		
Appearance	Hazy	-	2265		
Viscosity at 2 s-1	2500 - 3500	mPa.s	2313		
Viscosity at 20 s-1	1000 - 1400	mPa.s	2313		
Viscosity at 50 s-1	900 - 1100	mPa.s	2313		
Viscosity at 250 s-1	800 - 1000	mPa.s	2313		

Remarks

TM2313: Physica, spindle Z2, 23° C, $250 \text{ s}^{-1} = \text{Z3}$.

Properties of the liquid resin (typical values)

Property	Value	Unit	TM
Density, 23°C	1100	kg/m³	2160
Colour on sight	Yellow	-	-
Flash point	113	°C	2800
Stability, no init., dark, 25°C	6	months	-

Properties of cast unfilled resin (typical values)

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Value	Unit	TM			
70	MPa	ISO 527-2			
3.4	GPa	ISO 527-2			
2.6	%	ISO 527-2			
103	°C	ISO 75-A			
	Value 70 3.4 2.6	Value Unit 70 MPa 3.4 GPa 2.6 %			

Remarks

Cured with 3.0% Accelerator NL-49P + 2% Butanox M-50 + 2% Accelerator NL-63-10P. Post cured 24 hrs at RT followed by 24 hrs 60°C and 24 hrs 80°C.

Remarks on curing agents

All curing agents mentioned are AKZO Nobel products:

Butanox M-50 is Methyl ethyl ketone peroxide, solution in dimethyl phthalate. Accelerator NL-49P is Cobalt(II) 2-ethylhexanoate, 1% Co, in solvent mixture. Accelerator NL-63-10P is N,N-Dimethyl aniline, 10% solution in 2,2,4-trimethyl-1,3-pentanediol diisobutanoat.

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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