

Technical Datasheet



AROPOL™ S 575 INF Preliminary TDS for Resin infusion

AROPOL S 575 INF is a low styrene content, isophthalic based resin utilizing Ashland's patented LE technology. Viscosity of AROPOL S 575 INF resin is low and glass fiber wetting properties are very good.

Reactivity of AROPOL S 575 INF is adapted to Infusion process.

Typical liquid resin properties

Property at 23 °C	Value	Unit	Method
Viscosity, Brookfield RV2, 50 rpm	130	mPas	D 005
Styrene content	38	%	D 003
Geltime, 1.5% MEKP-50	70	min	D 006
Geltime to peak exotherm	30	min	D 006
Peak exotherm	130	°C	D 006

Typical cured resin properties

Property (postcure 24 h at 50°C)	Value	Unit	Method
Tensile strength	65	MPa	ISO 527
Tensile modulus	3700	MPa	ISO 527
Elongation at break	3.0	%	ISO 527
Heat deflection temperature (ultimate)	80	°C	ISO 75/2 (A)
Hardness	40	Barcol	ASTM D2583
Water absorption, 28 days	100	mg/sample	ISO 62-80
* sample 50x50x4 mm			

Application and use

AROPOL S 575 INF is a high quality infusion resin . Due to its very good mechanical properties and low water absorption AROPOL S 575 INF resin is suitable for a variety of FRP products especially in the marine industry.

Curing properties of AROPOL S 575 INF are good. In a laminate of only 4mm with a glass content of 30%, Barcol hardness of 20 is achieved in five hours and Barcol hardness of 35 in 24 hours.



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Certificate and approvals

AROPOL S 575 INF resin fulfills Lloyd's Register and Det Norske Veritas requirements for construction of small crafts. For the time being no certificates has been applied for.

The manufacturing, quality control and distribution of products, by Ashland Performance Materials, are complying with one or more of the following programs or standards: Responsible Care, ISO 9001, ISO 14001 and OHSAS 18001 by .

Handling and storage

It is highly recommended that all material is stored at stable temperatures under 20 °C preferably indoors, and away from direct sunlight. Prolonged storage or storage outside of recommended conditions can influence liquid resin properties like viscosity and geltime. It is also strongly recommended to mix resin thoroughly before use. Shelf life of AROPOL S 575 INF is three (3) months.

Notice

All information presented herein is believed to be accurate and reliable, and is solely for the user's consideration, investigation and verification. The information is not to be taken as an express or implied representation or warranty for which Ashland assumes legal responsibility. Any warranties, including warranties of merchantability, fitness for use or non-infringement of intellectual property rights of third parties, are herewith expressly excluded.

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Ashland requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.



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