

Technical Datasheet



AROPOL™ XO Tooling Resin

AROPOL XO tooling resin is a new tooling resin based on INEOS Composites's proven low profile (LP) technology.

AROPOL XO provides efficient way of building high quality FRP tools with good dimensional stability.

The characteristics of AROPOL XO resin are:

- Ease of application, due to low viscosity, by spray-up or hand lay-up
- Excellent curing where only peroxide has to be added
- Good mechanical strength and heat resistance creates a long lifetime tool
- Low shrinkage gives the final tool a superior surface profile and good dimension stability

Typical liquid resin properties

Property at 23 °C	Value	Unit	Method
Viscosity, Brookfield RV3, 10 rpm	2300	mPas	ISO 2555
Viscosity, cone & plate	330	mPas	ISO 2555
Monomer content	30	%	SFS 4864
Geltime, 1,5 vol-% MEKP-50	50	min	D 006
Peak exotherm	90	°C	D 006
Density	1,37	g/cm ³	ISO 2811-1

Application and use

Always mix AROPOL XO tooling resin thoroughly before use to homogenise material completely. Application of the resin is easy due to its low viscosity and high thixotropic index.

Curing characteristics of AROPOL XO resin is optimised to build a minimum laminate thickness of 5 mm wet on wet with powder bound mat (4 x 450 g/m²). In this way, high quality tools can be produced faster than with conventional methods. Efficient impregnation of glass fiber and very low linear shrinkage makes AROPOL XO tooling resin particularly suitable for production of tools requiring high dimensional stability and surface profile.

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Certificates and approvals	The manufacturing, quality control and distribution of products, by INEOS Composites, are complying with one or more of the following programs or standards: ISO 9001, ISO 14001 and OHSAS 18001.
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 outside of recommended conditions can influence liquid resin properties like viscosity and gel time. It is also strongly recommended to mix resin thoroughly before use. Shelf life of AROPOL XO tooling resin is six (6) months.
Notice	<p>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 INEOS Composites 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.</p> <p>Since the user's product formulations, specific use applications and conditions of use are beyond the control of INEOS Composites, INEOS Composites makes no warranty or representation regarding the results which may be obtained by the user. It shall be the sole responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application.</p> <p>INEOS Composites requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.</p>
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