

## Technical Datasheet



### AROPOL™ G 300 TPB

AROPOL G 300 TPB is a thixotropic, pre-accelerated, orthophthalic based resin with medium geltime. Good mechanical properties, heat resistance and hydrolysis resistance are characteristic for this resin.

#### Typical liquid resin properties

Property at 23 °C	Value	Unit	Method
Viscosity, Brookfield RV2, 10 rpm	1100	mPas	ISO 2555
Viscosity, cone&plate	250	mPas	ISO 2884
Styrene content	42	%	SFS 4864
Density	1,1	kg/dm <sup>3</sup>	ISO 2811
Geltime, 1% MEKP-50	45	min	D 006
Peak exotherm	115	°C	D 006

#### Typical cured resin properties

Property	Value	Unit	Method
Tensile strength	70	MPa	ISO 527
Tensile modulus	3300	MPa	ISO 527
Elongation at break	3,5	%	ISO 527
Flexural strength	110	MPa	ISO 178
Flexural modulus	3800	MPa	ISO 178
Heat deflection temperature	90	°C	ISO 75 (A)
Hardness	45	Barcol	ASTM D2583

#### Application and use

AROPOL G 300 TPB is a high quality laminating resin for spray-up and hand lay-up applications. Due to its high heat resistance and very good mechanical properties AROPOL G 300 TPB resin is suitable for production of various FRP products like septic tanks, oil tanks, agricultural silos and windmill blades.

AROPOL G 300 TPA resin allows build up of laminate thickness 4-10 mm wet on wet. Styrene

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emission under working conditions is lower than by using a standard resin. Sanding of the laminate is necessary after a break in the lamination work.

#### Certificates and approvals

The AROPOL G 300 series of resins is complying with the guidelines of Det Norske Veritas for construction of wind turbine power plants.

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 25°C preferably indoors, and away from direct sunlight. Prolonged storage or 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 G 300 TPB is six (6) 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 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.

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