

## Technical Datasheet

# INEOS Composites

### AROPOL™ K 530 TB

AROPOL K 530 TB is a thixotropic, preaccelerated isophthalic based special purpose resin with good mechanical properties combined with high temperature resistance. AROPOL K 530 TB is a medium reactive polyester resin with relatively long geltime.

#### Typical liquid resin properties

Property at 23 °C	Value	Unit	Method
Viscosity, Brookfield RV2, 10 rpm	1200	mPas	ISO 2555
Viscosity, cone&plate	320	mPas	ISO 2884
Styrene content	44	%	SFS 4864
Density	1,1	kg/dm <sup>3</sup>	ISO 2811
Geltime, 1,5% MEKP-50	35	min	D006
Peak exotherm, 1% MEKP-50	170	°C	D006

#### Typical cured resin properties

Property	Value	Unit	Method
Tensile strength	65	MPa	ISO 527
Tensile modulus	4100	MPa	ISO 527
Elongation at break	2,5	%	ISO 527
Flexural strength	125	MPa	ISO 178
Flexural modulus	3700	MPa	ISO 178
Heat deflection temperature (HDT)	93	°C	ISO 75/2 (A)
Hardness	45	Barcol	ASTM D2583
Water absorption, 24 hours	18	mg/sample*	ISO 62-80
Water absorption, 28 days	80	mg/sample*	ISO 62-80
* 50x50x4 mm*			

#### Application and use

AROPOL K 530 TB resin is suitable for spray-up and hand lay-up application for manufacturing different types of composites exposed to a corrosive environment and/or composites where good mechanical properties are important.

AROPOL K 530 TB resin is used in production of tanks, pipes, silos, boats, etc..

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**Certificates and approvals** AROPOL K 530 TB resin is approved by Lloyd's Register, Germanischer Lloyd's and Det Norske Veritas for construction of small crafts.

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 K 530 TB resin 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.

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.

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

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