

aropol®
unsaturated
polyester resins

AROPOL®

AROPOL® K 538 TB General Purpose Resin / Isophthalic

Aropol K 538 TB is a thixotropic, pre-accelerated isophthalic based special purpose resin with good mechanical properties combined with high temperature resistance and water resistance. Aropol K 538 TB is a medium reactive polyester resin with a relatively long geltime.

Typical liquid resin properties

Property at 23 °C	Value	Unit	Method
Viscosity, Brookfield RV2, 10 rpm	1200	mPas	D005
Viscosity, cone&plate	280	mPas	D004
Styrene content	43	%	D003
Density	1,1	kg/dm ³	QC16
Geltime, 1,5% MEKP-50	35	min	D006
Peak exotherm	115	°C	D006

Typical cured resin properties

Property	Value	Unit	Method
Tensile strength	60	MPa	ISO 527
Tensile modulus	4200	MPa	ISO 527
Elongation at break	2,2	%	ISO 527
Flexural strength	110	MPa	ISO 178
Flexural modulus	3800	MPa	ISO 178
Heat deflection temperature (HDT)	75	°C	ISO 75/2 (A)
Hardness	45	Barcol	ASTM D2583

Application and use

Aropol K 538 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 538 TB resin is used in production of tanks, pipes, silos, boats, etc..

Certificates and approvals

Aropol K 538 TB resin is approved by Lloyd's Register.

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.



Responsible Care*

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Delivery Aropol K 538 TB is delivered in 220 kg drums, 1100 kg containers or in bulk. On special request in 20/25 kg cans.

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 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 538 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 Ashland assumes legal responsibility. Any warranties, including warranties of merchantability 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 Ashland, Ashland makes no warranty or representation regarding the results which may be obtained by the user. It shall be the responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application.

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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