

Technical Datasheet



AROPOL™ G 102-9203 General Purpose Resin

AROPOL G 102-9203 is a thixotropic, preaccelerated, low viscosity, low exotherm, general purpose resin based on orthophthalic acid. AROPOL G 102-9203 has a medium geltime and due to its low viscosity, the glass fiber wetting properties are good.

Typical liquid resin properties

Property at 23 °C	Value	Unit	Method
Viscosity, Brookfield, RV2, 10 rpm	1200	mPas	ISO 2555
Viscosity, cone&plate	190	mPas	ISO 2884
Styrene content	42	%	SFS 4864
Density	1,1	kg/dm3	ISO 2811
Geltime, 1% MEKP-50	25	min	D006
Peak exotherm, 1% MEKP-50	80	°C	D006

Typical cured resin properties

Property	Value	Unit	Method
Tensile strength	55	MPa	ISO 527
Tensile modulus	3600	MPa	ISO 527
Elongation at break	2,0	%	ISO 527
Flexural strength	100	MPa	ISO 178
Flexural modulus	4000	MPa	ISO 178
Heat deflection temperature (HDT)	68	°C	ISO 75/2 (A)
Hardness	45	Barcol	ASTM D2583
Water absorption 24 hours	19	mg/sample	ISO 62-80
Water absorption 28 days	90	mg/sample	ISO 62-80
* sample 50x50x4 mm			



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Application and use AROPOL G 102-9203 resin is suitable for hand lay-up and spray-up applications. It is especially recommended for manufacturing of boats and similar products where good mechanical properties and water resistance is of importance.

Certificates and approvals AROPOL G 102-9203 resin is approved by Lloyd's Register and Det Norske Veritas for use in construction of small crafts.

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.

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 G 102-9203 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, 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 Ashland, Ashland 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.

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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