

# Technical Datasheet

Ashland Performance Materials



## 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

### 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.



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### AROPOL™ G 102-9203 General Purpose Resin

**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.

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