

# Technical Datasheet



## AROPOL™ M 650 TB Low Styrene Content and Low Styrene Emission Resin

**Description** AROPOL M 650 TB is a medium reactive DCPD laminating resin with low styrene content. AROPOL M 650 TB is thixotropic and pre-accelerated and contains special additives which reduce styrene emission during application.

**Application and Use** AROPOL M 650 TB is suitable for all general-purpose composite applications. AROPOL M 650 TB has a built-in accelerator system giving medium long gel time and good reactivity in medium thick laminates (5-12 mm). For thinner laminates (2-5 mm) a good reactivity is achieved by increasing MEK peroxide amount to 1,5-2% dependent of laminate thickness.

When a laminate is built up in stages with intermediate curing; each operation should be finished off with a normal resin/glass fiber ratio. Any surface area of a cured laminate having an excess of resin, must be abraded before the laminating is continued.

### Typical Liquid Resin

#### Properties

Property at 23°C	Value	Unit	Method
Viscosity, Brookfield, LV2, 12 rpm	1100 - 1300	mPa.s	Ap-02n
Viscosity, cone&plate	220 - 270	mPa.s	Ap-02m
Solid content	65 - 68	%	Ac-06d
Gel time, 1% MEKP-50	45 - 55	min	Hc-04a

### Typical Cured Resin

#### Properties

Property	Value	Unit	Method
Tensile strength	50	MPa	ISO 527
Tensile modulus	3100	MPa	ISO 527
Elongation at break	2,1	%	ISO 527
Flexural strength	90	MPa	ISO 178
Flexural modulus	3300	MPa	ISO 178
Heat deflection temperature (HDT)	70	°C	ISO 75

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### Certificates and Approvals

AROPOL M 650 TB is approved by Lloyd's Register.

The manufacturing, quality control and distribution of products, by ALTA Performance Materials, 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 M 650 TB is six (6) months from date of shipment.

### 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 ALTA Performance Materials 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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ALTA Performance Materials requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.