

Technical Datasheet

INEOS Composites

AROPOL™ M 650 TBR Low Styrene Content and Low Styrene Emission Resin

AROPOL M 650 TBR is a vapour suppressed, low styrene content DCPD hybrid polyester resin. AROPOL M 650 TBR is pre-accelerated and thixotropic. Easy lamination and good air release combined with low shrinkage and good surface cosmetics are characteristic for AROPOL M 650 TBR.

Typical liquid resin properties

Property at 23°C	Value	Unit	Method
Viscosity, Brookfield, LV2, 12 rpm	1100 - 1300	mPa.s	A040
Viscosity, cone&plate	180 - 200	mPa.s	A010
Volatile content	35,5 - 38,5	%	B070
Geltime, 1% BUTANOX M-50	45 - 50	min	G020

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	70	°C	ISO 75

Application and use

AROPOL M 650 TBR is developed for spray-up and hand lay-up applications and suitable for all general purpose applications. AROPOL M 650 TBR has a curing system enabling max.12 mm laminates wet on wet, without causing too high peak exotherm. For thinner laminates (2-5 mm), peroxide dosage 1,5-2% of MEKP-50 is recommended to get fast cure.

Certificate and approvals

AROPOL M 650 TBR approval process by Lloyd's Register for Special Service Craft is ongoing.

The manufacturing, quality control and distribution of products, by INEOS Composites, are complying with one or more of the following programs or standards: Responsible Care and ISO 9001.

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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 or storage outside of recommended conditions can influence liquid resin properties like viscosity and geltime. It is also strongly recommended to mix resin thoroughly before use. Shelf life of AROPOL M 650 TBR 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.