

AROPOL® M 105 TB Low Styrene Emission Resin

AROPOL M 105 TB is a thixotropic, pre-accelerated, orthophthalic based polyester resin, with a moderate geltime.

When applying AROPOL M 105 TB resin, styrene emission is reduced by up to 50% compared to standard resins. Emission is only 2-5% of polyester resin used compared to 5-10% of standard polyester resin. Excellent glass fiber wet out properties and easiness of application is characteristic for AROPOL M 105 TB.

Typical liquid resin properties

Property at 23 C	Value	Unit	Method
Viscosity, Brookfield RV2, 10 rpm	1200	mPas	ISO 2555
Viscosity, cone&plate	180	mPas	ISO 2884
Styrene content	41	%	SFS 4864
Density	1,1	kg/dm3	ISO 2811
Geltime, 1% MEKP-50	40	min	D 006
Peak exotherm	110	°C	D 006

Typical cured resin properties

Property (postcured 24h at 50 C)	Value	Unit	Method
Tensile strength	55	MPa	ISO 527
Tensile modulus	3600	MPa	ISO 527
Elongation at break	2,0	%	ISO 527
Flexural strength	90	MPa	ISO 178
Flexural modulus	4100	MPa	ISO 178
Heat deflection temperature (HDT)	66	C	ISO 75/2 (A)
Hardness	45	Barcol	ASTM D2583
Water absorption, 24 hours	19	mg/sample*	ISO 62-80
Water absorption 28 days	92	mg/sample*	ISO 62-80

* sample 50x50x4 mm

Application and use

AROPOL M 105 TB resin is suitable for spray-up and hand lay-up methods for manufacturing numerous FRP products for the marine, building and construction and transportation markets.

Certificates and approvals

AROPOL M 105 TB resin is approved by Lloyd's Register, Germanischer Lloyd's and Det Norske Veritas for construction of small crafts.

The manufacturing, quality control and distribution of products, by Ashland Composite Polymers, are complying with one or more of the following programs or standards: Responsible Care, ISO 9001, ISO 14001 and OHSAS 18001 by BVQI.



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Additional information

MEK peroxide influence on geltime	1.0% MEKP	1.25% MEKP	1.5% MEKP
M 105 TA	20 min	17 min	14 min
M 105 TAR	25 min	20 min	17 min
M 105 TB	40 min	32 min	25 min
M 105 TBR	45 min	35 min	28 min
M 105 TC	60 min	48 min	38 min
M 105T CR	60 min	48 min	38 min

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 M 105 TB is six (6) months.

Notice

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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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