

AROPOL® G 105 E

AROPOL G 105 E is a non-thixotropic, pre-accelerated, orthophthalic acid based, unsaturated polyester. AROPOL G 105 E resin is very suitable for injection moulding and cold press moulding.

Typical liquid resin properties

Property at 23 C	Value	Unit	Method
Viscosity, Brookfield RV2, 10 rpm	180	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	13	min	D006
Peak exotherm, 1% MEKP-50	120	°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	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	90	mg/sample*	ISO 62-80

* 50x50x4 mm

Application and use

AROPOL G 105 E resin is suitable for injection moulding and cold press moulding methods, for manufacturing of numerous FRP products.

When laminates of thickness over 7 mm are produced, it is recommended to use 1,3% Trigonox 75 peroxide. The geltime is the same as with 1,0% MEK-peroxide but the peak exotherm is lower.

Very quick curing of thin laminates can be achieved by substituting MEK-peroxide by half or totally with AAP (acetyl acetone peroxide), for example Trigonox 44B peroxide.



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Certificates and approvals

AROPOL G 105 E 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.

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 105 E 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 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 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.

More information

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