Technical Datasheet

INEOS Composites

AROPOL™ A 101 Series Resin

Description

Aropol A 101 Series resins are pre-promoted, thixotropic general purpose polyester resins.

Note: This series was previous labeled as "FRP A 101 T" products.

Applications and Use

Aropol A 101 T series resins are used for hand lay-up or spray-up in general purpose laminating applications. These resins have good fiber wetting properties and have a low viscosity for easy handling.

Typical Liquid Resin Properties

Property[1]	Aropol A 101 T-15	Aropol A 101 T-25	Unit
Viscosity (LV #2 spindle @ 30 rpm)	475	475	mPas (cps)
Thixotropic Index	3	3	
Non-Volatile Content	56	56	%
Room Temperature Gel Time[2]	15	25	minutes
Gel to Peak Exotherm Time	13	14	minutes
Peak Exotherm Temperature	320	300	F

[1]Properties run at 25°C (77°F) unless otherwise stated.
[2]Gel times run using 100 gms resin and 1.25% DDM-9 catalyst.
Properties are typical values based on material tested in our laboratories. Typical values should not be considered a guaranteed analysis of any specific lot.

Typical Clear Cast Properties

Property[3]	Value	Unit	Method
Tensile Strength	8,900	psi	ASTM D 638
Tensile Modulus	645	ksi	ASTM D 638
Elongation at Break	1.6	%	ASTM D 638
Flexural Strength	15,000	psi	ASTM D 790
Flexural Modulus	619	ksi	ASTM D 790

[3]Room temperature cured clear casting physical properties using 1.25% MEKP-9.

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Certificates and Approvals	The manufacturing, quality control and distribution of products, by INEOS Composites, comply with one or more of the following programs or standards: Responsible Care, ISO 9001, ISO 14001, and OHSAS 18001.
Standard Package	Bulk TW or Steel Drum with Net Weight of 220 Kgs (485 Lbs)
Commercial Warranty	Three months from date of manufacture, when stored in accordance with the storage conditions stated below.
Storage	Drums - Store at temperatures below 25°C (77°F). Storage life decreases with increasing storage temperature. Avoid exposure to heat sources such as direct sunlight or steam pipes. To avoid contamination of product with water, do not store outdoors. Keep containers sealed to prevent moisture pick-up and monomer loss. Mild mixing is recommended after prolonged storage. Rotate stock. Bulk: See INEOS Composites's Bulk Storage and Handling Manual for Polyesters and Vinyl Esters. A copy of this may be obtained from INEOS Composites at +1.614.790.3333 or 800.523.6963. All other conditions being equal, higher storage temperatures will reduce product stability and lower storage temperature will extend product stability.
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.

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INEOS Composites requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.

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