Technical Datasheet

INEOS Composites

AROPOL™ L 67307 T Series Resins Marine Laminating Resin

Aropol™ L 67307 T RESIN Highlights

AROPOL™ L 67307 T resin is specially designed to perform better than traditional general purpose resins. INEOS Composites understands the desire for better processing, storage stability, physical properties, and surface profiles when it comes to building boats. With the AROPOL™ L 67307 T, INEOS Composites has designed a resin that delivers it all:

35% Faster Barcol Development
Specially Formulated for Optimal Wet-Out of Glass Fibers
Minimal Gel-time Drift
Proprietary Storage Stability Technology
Enhanced Surface Profiles
Improved Fatigue Life
Optimized Mechanical Properties

Faster Production and Higher Quality

INEOS Composites has raised the standard of performance for marine general purpose resins with AROPOL™ L 67307 T by combining INEOS Composites's high-performance ISO resin with new, more stable, DCPD resins. The application properties of this resin enable faster production with improved quality and fewer defects. The enhanced fatigue life and improved surface profiles associated with this resin ensure longer lasting, better looking boats. By using AROPOL™ L 67307 T, it's possible to produce better parts more efficiently.

Recommended Product Application

AROPOL™ L 67307 T series resins are recommended for marine applications that require low HAP content for hand lay-up or spray-up operations.

Typical Liquid Properties

Property	Aropol L 67307 T-32	Aropol L 67307 T-50 B	Unit	Test Method
Gel Time	32	50	Minutes	HC-04A
Gel to Peak Exotherm	9	9	Minutes	HC-04A
Brookfield Viscosity (LV#3 @ 60 rpm)	600	600	cps	ISO 2555
Thix Index	3	3		ISO 2555

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Solids, minimum	63	63	%

Gel time was tested @77°F/25°C with 1.25 grams MEKP9 Catalyst in 100 grams of resin.

Typical Cured Resin Properties

Property	Value	Unit	Test Method
Clear Cast Panels post cured 24hrs @140°F per Det Norske Veritas			
Tensile Strength	6400	psi	ISO 527-1
Tensile Modulus	490	ksi	ISO 527-1
Tensile Elongation	1.4	%	ISO 527-1
Toughness to Break	48	psi	ISO 527-1
Flexural Strength	11300	psi	ISO 178
Flexural Modulus	480	ksi	ISO 178
Heat Deflection Temperature	91	°C	ISO 75-2
Water Absorption, 28 days	.7	%	ISO 62-80
Water Absorption, 28 days	81	mg H20/sample	ISO 62-80

Det Norske Veritas is an international ship classification and material certification system provider.

Property	Value	Unit	Test Method
Clear Cast Panels were post cured @140°F for 2 hours and then @280°F for 3 hours			
Tensile Strength	7300	psi	ISO 527-1
Tensile Modulus	500	ksi	ISO 527-1
Tensile Elongation	1.6	%	ISO 527-1
Toughness to Break	60	psi	ISO 527-1
Flexural Strength	11100	psi	ISO 178
Flexural Modulus	500	ksi	ISO 178
Heat Deflection Temperature	93	°C	ISO 75-2

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Product Information	Each end-user should evaluate the performance of the resin in conjunction with their respective gelcoat, under conditions which simulate laminate design, production procedure and anticipated field exposure before use. For technical information on the performance of the resin, contact your INEOS Composites Technical Representative.
Certificates and Approvals	ISO 122-15-1(Small craft - Hull Construction and Scantlings) compliant. The mechanical properties, performed on laminates prepared and post cured according to ISO 12215, meet the minimum requirements of section 4.3 of the standard
Standard Package	Steel Drum with Net Weight of 220kgs (485lbs).
Commercial Warranty	Three months from date of manufacture, when stored in accordance with the storage conditions stated below.
Storage	Drums: Store at temperatures below 25C. 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 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 1-800-523-6963
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

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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.

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