Technical Datasheet

Performance Materials

AROPOL™ Q 67700 Resin Series

Aropol™ Q 67700 Resin Series Highlights

AROPOL™ Q 67700 Resins are specially designed to outperform traditional general purpose resins. By combining the ALTA Performance Materials high-performance ISO and DCPD resins, ALTA has enabled faster production with improved quality and fewer defects. The enhanced fatigue life and surface profiles ensure longer lasting, better looking end products. AROPOL™ Q 67700 resins deliver:

Minimal Gel-time Drift
Proprietary Storage Stability Technology
Enhanced Surface Profiles
Enhanced Fatigue Life
Optimized Mechanical Properties

Recommended Product Application

AROPOL™ Q 67700 T-series resins are recommended for applications that utilize hand lay-up or spray-up operations. AROPOL Q 67700 INF-series resins are recommended for products manufactured using the infusion, RTM and closed mold processes. While the resin series are useful in almost all general purpose laminating applications, the Aropol Q 67700 products have been specifically deigned to meet the demanding needs of marine applications.

Typical Liquid Properties for Aropol Q 67700 T series

Data shown is representative of Aropol Q 67700 T-series; available in 22, 30, 35, 40, 45 and 50 minute versions.

Property	Value	Unit	Test Method
Gel Time	30	Minutes	HC-04A
Gel to Peak Exotherm	9	Minutes	HC-04A
Peak Exotherm	330	°F	HC-04A
Brookfield Viscosity (LV#3 @ 60 rpm)	600	cps	ISO 2555
Thix Index	3		ISO 2555
Solids, minimum	63	%	
Density	9.1	lbs/gal	ISO 2811
HAPS	33.55	%	

Gel time tested @77°F/25°C with 1.5 grams Lupersol DDM-9 Catalyst in 100 grams of resin.

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Typical Liquid Properties for Aropol Q 67700 INF series

Data shown is representative of Aropol Q 67700 INF series.
The Aropol Q 67700 INF series is available in gel times of 20, 35, 40 and 60 minutes.
The Aropol Q 67709 INF series has a lower viscosity and is available in gel times of 12 and 16 minutes.

Property	Aropol Q 67700 INF-20	Aropol Q 67709 INF-12	Unit
Gel Time	20	12	Minutes
Gel to Peak Exotherm	8	8	Minutes
Peak Exotherm	320	325	°F
Brookfield Viscosity (cps)	145	115	cps
Styrene	<35	<36	%
Density	9.1	9.1	lbs/gal

Gel time tested @77°F/25°C with 1.5 grams Lupersol DDM-9 Catalyst in 100 grams of resin.

Typical Cured Resin Properties

Property	Value	Unit	Test Method
Clear Cast Panels post cured 5 hrs @100°C			
Tensile Strength	9100	psi	ISO 527-1
Tensile Modulus	500	ksi	ISO 527-1
Tensile Elongation	2.1	%	ISO 527-1
Flexural Strength	13000	psi	ISO 178
Flexural Modulus	510	ksi	ISO 178
Heat Deflection Temperature	83	°C	ISO 75-2
Water Absorption, 28 days	0.7	%	ISO 62-80
Water Absorption, 28 days	81	mg H20/sample	ISO 62-80

Flex Fatigue Testing

Boats are subjected to repeated, cyclic type stresses in every day use such as waves, wakes and docking. The flex fatigue test is designed to measure the long term durability and resistance to fatigue failure of composite materials used in boats. The flex fatigue test itself accelerates fatigue failure by using even more extreme conditions than a boat would normally endure. Those

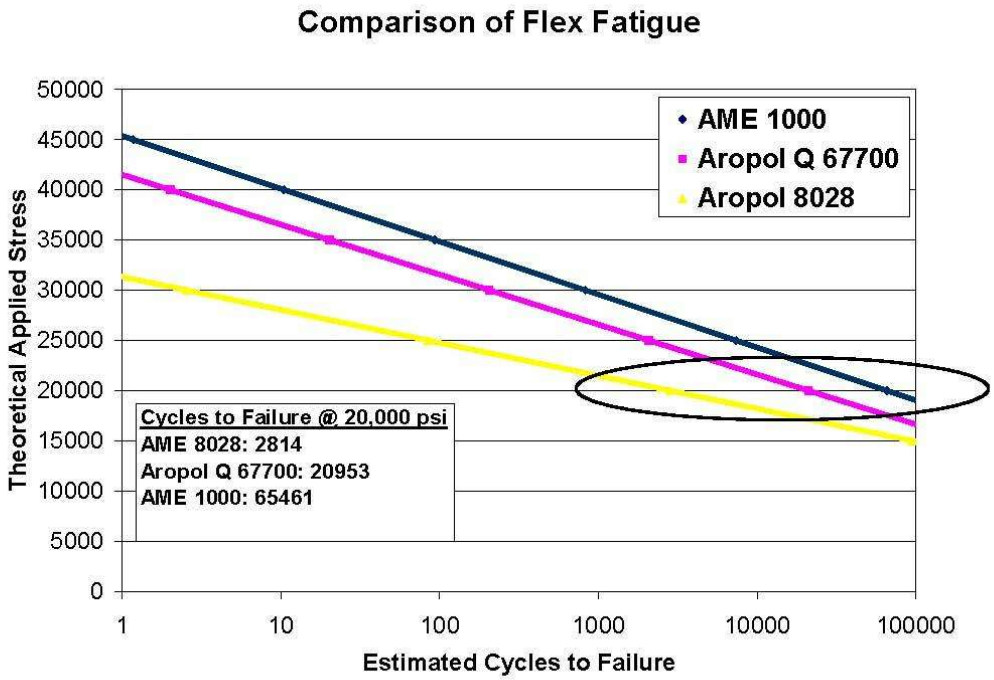
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materials with a higher number of cycles to failure can be expected to resist fatigue failure for a longer period of time. Aropol Q 67700 demonstrates increased flex fatigue resistance as compared to other general purpose resins.



Product Information

Each end-user should evaluate the performance of the resin 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 ALTA Performance Materials Technical Representative.

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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 shipment, 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.
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 ALTA Performance Materials 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 ALTA Performance Materials, ALTA Performance Materials 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. ALTA Performance Materials requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.

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More Information

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