

# AROPOL™7334 T Resin Series



### Overview

AROPOL 7334 T series resins are promoted, isophthalic, polyester resins that provide high impact strength, crack resistance, high tensile elongation and excellent wet-out of glass fiber.

### Applications

AROPOL 7334 T series resins are designed for hand lay-up and spray-up applications.

The raw materials used in the manufacture of these resins are listed as acceptable in FDA regulation Title 21 CFR 177.2420 for repeated use in contact with food subject to user's compliance with the prescribed limitations of that regulation.

Refer to the AROPOL 7334 Infusion Series data sheet for variants of this resin designed for filament winding, infusion and other non-thixotropic application methods.

### Typical Liquid Resin Properties

Property at 25°C (77°F) unless otherwise marked	Value	Unit	Notes
Percent Solids	54	%	
Viscosity	450	mPas (cps)	#3 @ 60 rpm
Thix Index	2.5		
Specific Gravity	1.09		9.09 lb/gal
Room Temperature Gel Time	Various*	Minutes	1.25% DDM-9

\*Multiple gel time version are available, including:

- Aropol 7334 T-25
- Aropol 7334 T-30
- Aropol 7334 T-40

Note that the total cure time is generally twice as long as the initial gel time when initiated with 1.25% DDM-9 at 77°F.

### Typical Liquid Resin Curing for Aropol 7334 T-30

The table below shows the amount of DDM-9 catalyst required in 100 grams of resin to achieve a desired gel time at various ambient temperature ranges.

Desired gel time	55-65°F	65-75°F	75-85°F	85-95°F
5 – 10 minutes				2.5
10 – 15 minutes			2.25	1.75
15 – 20 minutes		2.5	1.75	1.5
20 – 25 minutes		2.0	1.5	1.4
25 – 30 minutes	2.5	1.75	1.3	1.25
30 – 35 minutes	2.25	1.5	1.2	

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## Typical Cured Resin Properties

Tensile Strength	11,300	psi	ASTM D638
Tensile Modulus	570	ksi	ASTM D638
Tensile Elongation at Break	4.4	%	ASTM D638
Flexural Strength	18,000	psi	ASTM D790
Flexural Modulus	510	ksi	ASTM D790
Heat Deflection Temperature	197	°F	ASTM D648
Barcol Hardness	40	Units	ASTM D2538

*Catalyzed with 1.25% DDM-9. Cured at room temp for 24 hours followed by 2 hours at 280°F.*

### Standard package

Steel drum with net weight of 220 kgs (485 lbs).

### Commercial Warranty

Three months from the date of shipment, when stored in accordance with the storage conditions stated below.

### Storage

All other conditions being equal, higher storage temperatures will reduce product stability and lower storage temperatures will extend product stability. Store at temperatures below 25°C / 77°F. Avoid exposure of storage tanks and storage containers to heat such as direct sunlight, steam pipes, and other heating sources.

Containers: Keep containers sealed to prevent moisture pick-up and monomer loss. Do not store drums and other small containers outdoors. Mild mixing is recommended after prolonged storage. Rotate stock.

Bulk Storage: Consult with your ALTA Performance Materials account representative for a guide to best practices on bulk resin storage and handling.

### 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.

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

### **Commercial contacts by region available at:**

<https://altapm.com/contact/>

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<sup>i</sup>All properties are typical values. Results may vary. Typical values are not a guaranteed analysis of any specific lot or specification. ALTA Performance Materials is committed to the continuous evolution of technology and service solutions that promote health, safety and environmental protection around the world. ®Registered trademark and ™ trademark ALTA or its subsidiaries, registered in various countries.  
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