AROPOL™ 70434-24 LSE Resin

Overview

AROPOL 70434-24 LSE resin is a low viscosity, isophthalic, polyester resin containing a styrene suppressant. This resin was originally designed for use in filament winding applications.

Typical Liquid Resin Properties

Property	Value	Unit	Test Method
Brookfield Viscosity	550	Cps	#3 @ 60 rpm
Solids, minimum	63	%	Hot plate
Room Temperature Gel (RTG) time	24	Minutes	*tested @ 77°F/25°C*
Gel to Peak Exotherm Time	10	Minutes	
Peak Exotherm Temperature	350	°F	

Typical Cured Resin Properties

Property at 25°C (77°F) unless otherwise marked	Value	Unit	Test Method
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 INEOS Composites account representative for a guide to best practices on bulk resin storage and handling.

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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.

INEOS Composites 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://www.ineos.com/businesses/ineos-enterprises/businesses/ineos-composites/contacts/

[i]All properties are typical values. Results may vary. Typical values are not a guaranteed analysis of any specific lot or specification.
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