Technical Datasheet

Ashland Performance Materials

AROPOL™

AROPOL™ 75501 INF Infusion Resin Series

Description

AROPOL™ 75501 INF Resin series is a non-thixotropic, promoted resin designed for infusion processes. The product yields very good mechanical properties. Low heat development during cure makes Aropol 75501 INF resin series applicable for the manufacturing of thick laminates.

Application and Use

The Aropol 75501 INF series is especially well suited for closed molding / infusion of parts that are not gelcoated, or have a gelcoat on only one side. The product releases much easier from a non gelcoated mold than many other resins designed for infusion applications.

Typical Liquid Properties

Property	INF-10	INF-15	INF-90	Unit	Test Method
Gel Time	10	15	90	Minutes	DIN 16945
Gel to Peak Exotherm Time	7.5	9	11	Minutes	DIN 16945
Peak Exotherm Temperature	370	365	300	°F	DIN 16945
Viscosity LV2 @ 60 rpm	175	175	175	mPa•s	ISO 2555
Non Volatile Content	54	54	54	%	
Weight Per Gallon	9.1	9.1	9.1	Lb/gal	

Gel time was tested @77°F/25°C with 1% MEKP in 100g of resin.

Typical Cured Resin Properties

Property	Value	Unit	Test Method
Tensile Strength	75	MPa	ISO 527-1
Tensile Modulus	3300	MPa	ISO 527-1
Tensile Elongation	4.05	%	ISO 527-1
Flexural Strength	130	MPa	ISO 178
Flexural Modulus	3300	MPa	ISO 178
Heat Deflection Temperature	80	°C	ISO 75-2
Hardness Barcol	>45		ASTM D2583

Certificates and Approvals

The manufacturing, quality control and distribution of products, by Ashland Performance Materials, complying with one or more of the following programs or standards: Responsible Care, ISO 9001, ISO 14001, and OHSAS 18001.

Responsible Care*

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AROPOL™ 75501 INF Infusion Resin Series

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 25*C. 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 Ashland's Bulk Storage and Handling Manual for Polyesters and Vinyl Esters. A copy of this may be obtained from Performance Materials 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 Ashland assumes legal responsibility. Any warranties, including warranties of merchantability 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 Ashland, Ashland makes no warranty or representation regarding the results which may be obtained by the user. It shall be the responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application. Ashland requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.

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