Technical Datasheet

INEOS Composites

AROPOL™ LB 1170-49 HV Resin

Description

AROPOL LB 1170-49 HV resin is an unpromoted polyester resin capable of bonding to unplasticized PVC (uPVC)(1).
(1) Bonding results vary, check for bonding suitability before each application.

Applications and Use

AROPOL LB 1170-49 HV resin can be used for hand lay-up, spray-up, or filament winding. It is suitable for general laminate construction and can be used as the resin for the structural reinforcement after the bonding layer has been prepared.

Typical Liquid Resin Properties

Property(2)	Value	Unit
Percent Solids	62	%
Viscosity, #1 @ 4 rpm	1400	mPas (cps)
Specific Gravity	1.06	gm/cc
Room Temperature Gel Time	8	minutes
Total Time	15	minutes
Peak Exotherm Temperature	380	°F

Gel Initiated using: 1.25% DDM-9, 0.10% Cobalt-12%.
(2) Properties measured at 25°C (77°F). Properties are typical values, based on material tested in our laboratories. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

Typical Properties of Cured Casting

Property	Value	Units
Tensile Strength	11,700	psi
Tensile Modulus	490	ksi
Elongation	5.0	%
Flex Strength	19,600	psi
Flex Modulus	490	ksi
HDT	178	°F

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Standard Package	Steel Drum with Net Weight of 220 Kgs (485 Lbs)
Commercial Warranty	Three months from date of shipment, when stored in accordance with the storage conditions stated below.
Storage	Drums - Store at temperatures below 25°C (77°F). Storage life decreases with increasing storage temperature. Avoid exposure to heat such as direct sunlight or steam pipes. To avoid contamination of the product with water, do not store outdoors. Keep containers sealed to prevent moisture pick-up and monomer loss. Mild mixing is recommended after prolonged storage. Rotate stock. Bulk - Refer to INEOS Composites's Bulk Storage and Handling Manual for Polyesters and Vinyl Esters. A copy of this may be obtained from INEOS Composites at +1.614.790.3333 or 800.523.6963. All other conditions being equal, higher storage temperatures will reduce product stability and lower storage temperatures will extend product stability.
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 Material Safety Data Sheet.

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