Technical Datasheet

INEOS Composites

AROPOL™ LF 68404 TC-12 Filled Laminating Resin

Description

AROPOL LF 68404 TC-12 Resin is a thixed and promoted resin designed to work well when highly filled and used in fast line speed operations, such as tub-shower.

Typical Liquid Resin Properties

Property[1]	Value	Unit
Styrene Content	37.5	%
Viscosity @ 77°F, #2 @ 20 rpm	75	mPa·s (cps)
Thix Index of Neat Resin at 77°F	1.2	
Filled Mix Cup Gel Test @ 90°F	12	minutes
Filled Mix Gel to Peak Exo	11	minutes
Filled Mix Peak Exo	230	°F
Cup gel using 1% DDM-9 in 100 g of filled mix		
Fill mix is 50% PMC and 50% Resin		

[1] Properties are run at 25°C (77°F) unless otherwise stated. Properties are typical values, based on target values in INEOS Composites QC laboratories. Sample results vary from batch to batch. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

Typical Cured Resin Properties

Property	Value	Unit	Method
Tensile Strength	7,500	psi	ASTM D638
Tensile Modulus	440	ksi	ASTM D638
Elongation	1.7	%	ASTM D638
Flexural Strength	11,600	psi	ASTM D790
Flexural Modulus	450	ksi	ASTM D790
HDT	68 (154)	°C (°F)	ASTM D648

Clear castings cured using 1.5% MEKP-9 and postcured at 60°C for two hours.

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Standard Package	Bulk tankwagon, or, Steel drum with net weight of 220 Kg (485 lb)
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 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 1-800-523-6963. All other conditions being equal, higher storage temperatures will reduce product stability and lower storage temperature 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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More Information

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