Technical Datasheet

Ashland Performance Materials

AROPOL™

AROPOL™ 2036 C Pultrusion Resin

Description

AROPOL 2036 C resin is a medium reactivity, isophthalic polyester. The raw materials used in the manufacture of this resin are listed as acceptable in FDA regulatory Title 21 CFR 177.2420 for repeated use in contact with food subject to user's compliance with the prescribed limitations of that regulation.

Applications and Use

AROPOL 2036 C resin has been optimized for standard pultrusion profiles requiring fast pull speeds, excellent fiber wetting, and thorough cure.

Typical Liquid Resin Properties

Property(1) at 25°C (77°F)	Value	Unit
Solids	64.5	%
Viscosity, Brookfield #4 spindle @ 20 rpm	1100	cps
Acid Value (solution)	13	
Specific Gravity	1.13	gm/cc

(1) 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 Curing Properties

Curing properties have been measured using 1.0 gm BPO powder in 100 grams of resin.

Property(1)	Value	Unit
SPI Gel Time	5.5	minutes
SPI Total Time	7.0	minutes
SPI Peak Exotherm	430	°F

Typical Mechanical Properties

Property(1) of cured casting	Value (SI)	Value (US)	Method
Tensile Strength	81 MPa	11,800 psi	ASTM D638
Tensile Modulus	3380 MPa	490 ksi	ASTM D638
Tensile Elongation	4.5%	4.5%	ASTM D638
Flexural Strength	139 MPa	20,100 psi	ASTM D790
Flexural Modulus	3650 MPa	530 ksi	ASTM D790
Heat Deflection Temperature	95°C	203°F	ASTM D648

Responsible Care*

Ashland is committed to the continuous evolution of technology and service solutions that promote health, safety and environmental protection around the world.
* Registered service mark of the American Chemistry Council. ® Registered trademark and ™ trademark of Ashland Inc.

ASHLAND
With good chemistry great things happen.™

Technical Datasheet
Ashland Performance Materials

AROPOL™ 2036 C Pultrusion Resin

Certificates and Approvals	The manufacturing, quality control and distribution of products, by Ashland Composite Polymers, comply with one or more of the following programs or standards: Responsible Care, ISO 9001, ISO 14001 and OHSAS 18001.
Standard Package	Bulk wagon, or Steel drum with net Weight of 220 Kgs (485 Lbs)
Commercial Warranty	Three months from date of shipment, when stored in accordance with the conditions stated below.
Storage	Drums - Store at temperatures below 25°C (77°F). 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 containers 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 Ashland Composite Polymers 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 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 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.

Responsible Care*

Ashland is committed to the continuous evolution of technology and service solutions that promote health, safety and environmental protection around the world.

* Registered service mark of the American Chemistry Council. ® Registered trademark and ™ trademark of Ashland Inc.

With good chemistry great things happen.™