Technical Datasheet

INEOS Composites

AROPOL™ 7030

Description

AROPOL 7030 resin is a high reactivity, thickenable, unsaturated isophthalic polyester. This product offers high heat deformation temperature, excellent wet-out properties and is easily pigmented.

Applications and Use

AROPOL 7030 resin is often used in high reactivity, low shrink applications such as pigmentable sheet molding compound (SMC) and bulk molding compound (BMC) applications. The resin also performs well in pultrusion applications with thin wall parts and when thixed and promoted, can be used as a laminating resin for pipes, tanks and similar components.

The raw materials used in the manufacture of this resin are listed as acceptable in FDA regulation Title 21 CFR 177.2420 for repeated use in contact with food, subject to the user's compliance with the prescribed limitations of that regulation.

Laminates using Aropol 7030 resin have passed the testing requirements of UL 1316, including for ethanol-based fuels. Laminate builds which pass the UL 1316 requirement also pass the related UL1746 corrosion requirements.

Typical Liquid Resin Properties

Property(1) at 25°C (77°F)	Value	Unit
Viscosity, Brookfield	1200	mPas (cps)
Styrene content	38	%
SPI geltime	5	min
SPI peak exotherm time	6	min
SPI peak exotherm temperature	235 (455)	°C (°F)
Water content	0.1	%
Acid value (solids basis)	28	mg KOH/g
Acid value (solution basis)*	17	mg KOH/g
Calculated from AV-solids test result		

(1) Properties are typical values and should not be considered an analysis of any specific lot.

INEOS Composites is committed to the continuous evolution of technology and service solutions that promote health, safety and environmental protection around the world.
® Registered trademark and ™ trademark INEOS Composites

Technical Datasheet

INEOS Composites

AROPOL™ 7030

Typical Cured Resin Properties

Property	Value	Unit	Method
Tensile Strength	9,000	psi	ASTM D638
Tensile Modulus	560	ksi	ASTM D638
Elongation at Break	1.7	%	ASTM D638
Flexural Strength	15,500	psi	ASTM D790
Flexural Modulus	610	ksi	ASTM D790
Heat Distortion Temperature	129 (264)	°C (°F)	ASTM D648

Castings cured with 1% BPO, cured two hours at 160°F then one hour at 200°F, postcured for two hours at 280°F.

Typical Thickening Characteristics at 77°F (25°C)

Time to 10,000 cps ("A" Value) = 15 - 50 minutes
Viscosity 30 minutes after "A" value = 500M - 2,000M

Certificates and approvals

The manufacturing, quality control and distribution of products, by INEOS Composites, are complying with one or more of the following programs or standards: ISO 9001, ISO 14001 and OHSAS 18001.

Standard Package

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 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.

INEOS Composites is committed to the continuous evolution of technology and service solutions that promote health, safety and environmental protection around the world.
® Registered trademark and ™ trademark INEOS Composites

Technical Datasheet

INEOS Composites

AROPOL™ 7030

Bulk - See 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.

With other storage 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.

More Information

INEOS Composites
5220 Blazer Parkway
Dublin, OH, 43017

Tel: +1 614 790 9299
Email: Americascustomer.composites @INEOS.com

INEOS Composites is committed to the continuous evolution of technology and service solutions that promote health, safety and environmental protection around the world.
® Registered trademark and ™ trademark INEOS Composites