Technical Datasheet

AROPOL™ 7220 Resin

Description

AROPOL 7220 resin is a high viscosity, high molecular weight, isopthalic polyester resin containing styrene. The resin has a high heat deflection temperature and high strenght retention at elevated temperatures.

Applications and Use

AROPOL 7220 resin can be used for press molding, gel coats, and similar applications.

Alternative Products

Aropol 7221 may be a suitable replacment when lower viscosity and molecular weight resin can be used.

Typical Liquid Resin Properties

Property(1) at 25°C (77°F) unless noted	Value	Unit
Non-Volatiles Content	65	%
Viscosity, Brookfield	3500	mPas (cps)
Acid Number	10	(solids basis)
Density	9.4	Lb/Gallon
Gel Time with 1% BPO in 180°F Bath (SPI Gel)*	6	minutes
Total Time in 180°F SPI Gel	7.5	minutes
Peak Exotherm in 180°F SPI Gel	430	℉
2.0% ATC Paste		

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

Typical Mechanical Properties

Cured Casting Property(2) at 25°C (77°F)	Value (US)	Unit	Method
Tensile Strength	9,900	psi	ASTM D638
Tensile Elongation	2.1	%	ASTM D638
Flexural Strength	21,500	psi	ASTM D790
Flexural Modulus	5.4	ksi	ASTM D790

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Heat Deflection Temperature	123	°C	ASTM D648
Barcol Hardness	49	Units	ASTM D2538

(2) Catalyzed with 1% BPO, cured for two hours at 160°F, one hour at 200°F, and postcured for two hours at 280°F.

Certificates and Approvals

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

Standard Package

Steel Drum with Net Weight of 220 Kg (485 Lb)
or Bulk Wagon

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 ALTA Performance Materials's Bulk Storage and Handling Manual for Polyesters and Vinyl Esters. A copy of this may be obtained from ALTA Performance Materials 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.

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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 ALTA Performance Materials 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 ALTA Performance Materials, ALTA Performance Materials 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.

ALTA Performance Materials requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.

More Information

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