

Technical Datasheet



AROPOL™ S 580 General Purpose Resin / Isophthalic

Description AROPOL S 580 is an isophthalic based resin with good mechanical properties combined with high temperature resistance. AROPOL S 580 is a medium reactive polyester resin with a relatively long gel time.

Typical Liquid Resin Properties

Property at 25°C	Value	Unit
Viscosity, Brookfield, RV2, 20 rpm	700	mPas
Non-Volatiles	62	%
Gel Time, 1,0% Co (1%) + 1,0% MEKP-50	15	min
Peak Exotherm Temperature	170	°C

Typical Cured Properties

Property ⁽¹⁾	Value	Unit	Method
Tensile Strength	81	MPa	ISO 527
Tensile Modulus	3500	MPa	ISO 527
Elongation at Break	6,3	%	ISO 527
Flexural Strength	130	MPa	ISO 178
Flexural Modulus	3300	MPa	ISO 178
Heat Deflection Temperature (HDT)	86	°C	ISO 75-A

(1) Clear casting physical properties cured using 1,0% Co (1%) + 1,0% MEKP-50 catalyst. Post cured at 70°C for 24 hours.

Application and Use AROPOL S 580 resin is suitable for hand lay-up and filament winding applications for production of composites where good mechanical properties are important.

AROPOL S 580 resin is used in manufacturing a variety of products like; tanks, pipes, etc.



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

Handling and Storage It is highly recommended that all material is stored at stable temperatures under 25°C preferably indoors, and away from direct sunlight. Prolonged storage outside of recommended conditions can influence liquid resin properties like viscosity and gel time. It is also strongly recommended to mix resin thoroughly before use. Shelf life of AROPOL S 580 resin is six (6) months.

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, 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 Ashland, Ashland 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.

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



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