

Technical Datasheet



AROPOL™ UN 2 Corrosion resistant resin

AROPOL UN 2 is a medium reactivity and viscosity, unsaturated polyester resin, whose formulation is based on isophthalic acid and NPG. AROPOL UN 2 is a resin certified from German Lloyd and DIBT Berlin.

Typical liquid resin properties

Property at 23 °C	Value	Unit	Method
Viscosity, Brookfield RV3, 10 rpm	600	cps	D 005
Styrene content	40	%	D 003
Geltime 25 °C	8	min	D 025
+ 0.5% Co-oct (1%)			
+ 2,0% MEKP-50			
Stability(dark place)	6	months	
Colour	max 150	Hazen	QC 53
Acid value	12	mg KOH/g	
Peak exotherm	140	°C	
Curing time 25°C-Peak exotherm	25	min	

Typical cured resin properties

Property	Value	Unit	Method
Tensile strength	65	MPa	DIN 53455
Elongation at break	3,5	%	ISO 527
Flexural strength	130	MPa	ISO 178
Flexural modulus	3800	MPa	ISO 178
Heat deflection temperature (1,81MPa)	110	C	ISO 75 / A
Barcol hardness	40		ASTM D 2583



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Application and use AROPOL UN 2 resin can be processed by hand lay-up, spray-up, injection/RTM and filament winding for manufacturing parts like pipes, vessels, liners,....AROPOL UN 2 resin can also be used for the formulation of gelcoats or topcoats.

Certificates and approvals The manufacturing, quality control and distribution of products by Ashland Performance Materials, are complying with one or more of the following programs and standards: Responsible Care, ISO 9001, ISO 9002, ISO 14001 and OHSAS 18001 by .

Handling and storage It is highly recommended that all material is stored at stable temperatures under 20°C preferably indoors, and away from direct sunlight. Prolonged storage or storage outside of recommended conditions can influence liquid resin properties like viscosity and gel time. Shelf life of UN 2 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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