

Technical Datasheet



AROPOL™ G 154 General Purpose Resin

AROPOL G 154 is an unsaturated polyester orthophthalic acid based general purpose resin of medium reactivity. AROPOL G 154 is a non-thixotropic, non-accelerated resin.

Typical liquid resin properties at 23 °C

	Value	Unit	Method
Viscosity, Brookfield RV2,10 rpm	290	mPas	D 005
Monomer content	38	%	D 003
Geltime	22	min	D 006
+ 1,0 % Co-oct (1% Co)			
+ 1,0 % MEKP-50			
Density	1.1		QC 16

Typical cured resin properties

	Value	Unit	Method
Flexural strength	110	mPa	ISO 178
Flexural modulus	3900	mPa	ISO 178
Tensile strength	60	mPa	ISO 527
Tensile modulus	3500	mPa	ISO 527
Elongation at break	2.1	%	ISO 527
Heat deflection temperature	75	°C	ISO 75 (A)
Hardness	43	Barcol	ASTM D 2583
Water absorption, 24 hours	19	mg/sample	ISO 62

Application and use

AROPOL G 154 resin can be applied by hand lay-up, spray-up, cold compression, injection and filament winding. The resin is particularly recommended for the manufacture of industrial parts, bus/truck parts and building panels, tanks and silos.

Technical Datasheet



AROPOL™ G 154 General Purpose Resin

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.

AROPOL G 154 resin is listed by Lloyd's Register for construction of boats.

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. It is also strongly recommended to mix resin thoroughly before use. Shelf life of AROPOL G 154 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 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.