

Alathon L4904

Material of choice for high performance pressure pipe





Alathon L4904 is a bimodal, high molecular weight HDPE resin used in high pressure pipe applications with excellent processing characteristics. Predecessor piping materials such as PVC, steel, ductile iron and concrete can be prone to failure caused by corrosion, structural failure, shifting soil, or faulty joints. Since Alathon 4904 exhibits improved melt strength for dimensional stability in large pipe sizes and greater resistance to slow-crack growth and rapid-crack propagation, pipes made with this resin have an expected service life of up to 100 years when properly designed, installed and operated per applicable international standards and practices.

Pipes made with Alathon L4904 can be installed without the use of mechanical joints, creating a leak-free piping system that conserves water and preserves the environment. In addition, these pipes can also be installed without the need for open trenches making it a less costly and invasive alternative.

Product Benefits

- I Highly durable with service life of up to 100 years
- Easy and cost effective installation
- Excellent chemical and corrosion resistance
- Resistant against extreme temperatures

Some Typical Applications



pipes



Gas distribution



Industrial and mining pipes





Geothermal piping



Resin Properties

Property	Value	Units	Test Method
High Load Melt Index	7.0	g/10 min	ASTM D1238
Melt Index	0.04	g/10 min	ASTM D1238
Density	0.949	g/cc	ASTM D1505
DSC Induction Temprature	260	°C	ASTM D3550
2% Secant Modulus	146,000	psi	ASTM D790
Tensile Stress @ Yield	3,500	psi	ASTM D638
Tensile Stress @ Yield	5,100	psi	ASTM D638
Elongation @ Break	615	%	ASTM D638
Brittleness Temprature	<-76	°C	ASTM D746

ABOUTUS

LyondellBasell (NYSE: LYB) is one of the largest plastics, chemicals and refining companies in the world. Driven by its employees around the globe, LyondellBasell produces materials and products that are key to advancing solutions to modern challenges like enhancing food safety through lightweight and flexible packaging, protecting the purity of water supplies through stronger and more versatile pipes, improving the safety, comfort and fuel efficiency of many of the cars and trucks on the road, and ensuring the safe and effective functionality in electronics and appliances. LyondellBasell sells products into more than 100 countries and is the world's largest producer of polypropylene compounds and the largest licensor of polyolefin technologies. In 2018, LyondellBasell was named to Fortune magazine's list of the "World's Most Admired Companies."

For more information, visit lyb.com or please contact:

EuropeAfrica, Middle East, IndiaEU.Polymers@lyb.comAFMEI.Polymers@lyb.com

North America Asia

NA.Polymers@lyb.com

AP.Polymers@lyb.com

South America

Australia/New Zealand

SA.Polymers@lyb.com AU.Polymers@lyb.com

Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT. This product(s) may not be used in: (i) any U.S. FDA Class I, Health Canada Class I, and/or European Union Class I Medical Devices, without prior notification to Seller for each specific product and application; or (ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: (1) U.S. FDA Class II, Health Canada Class II or Class III, and/or European Union Class II Medical Devices;

Alathon is a trademark owned or used by the LyondellBasell family of companies and is registered in the U.S. Patent and Trademark Office.

