

Alathon L5008HP

Low cost, durable and leak-free piping systems for generations

LyondellBasell pipe resins have been effectively transporting fluids for more than 50 years. The resin is chosen by customers for pressure pipe applications including water and sewer, oil and gas gathering, industrial, mining and geothermal piping.

Alathon high quality pipe resins have excellent resistance to corrosion, chemicals and slow crack growth. Predecessors in 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. Pipes made with *Alathon* L5008HP can be installed without the use of mechanical joints, creating a leak-free piping system that conserves water and preserves the environment.

Alathon L5008HP pipe can also be installed without the need for open trenches. A less invasive alternative, these pipe networks can be installed by directional drilling, pipe bursting or slip lining underneath the ground to save money and avoid disturbing the world above.



Features and Benefits

- | A resin designed for 100+ year service life
- | Light weight and easy to install
- | Cost effective water piping system solution
- | Earthquake resistant
- | Excellent chemical and corrosion resistance
- | Resistance against extreme temperatures
- | Versatile resin for multiple environments

More information please contact us at PEpipe@lyondellbasell.com or visit www.LYB.com

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Alathon L5008HP is a bimodal, high molecular weight, high density polyethylene resin with excellent processing characteristics. With a melt index of 0.07 g/10 minutes, Alathon L5008HP will process as easily as a product with a higher melt index of 0.1 g/10 minutes. As a result, higher machine throughput or lower horsepower and head pressure can be achieved by using this resin.

When combined with an approved color concentrate, L5008HP meets the following:

- PPI PE4710
- NSF Standards 14 & 61 for potable water piping
- NSF 358-1 for geothermal pipe and fittings

Typical Properties

Property	Value	Units	Test Method
High Load Melt Index	16.0	g/10 min	ASTM D1238
Melt Index	0.07	g/10 min	ASTM D1238
Density	0.949	g/cc	ASTM D1505
DSC Induction Temperature	267	°C	ASTM D3350
2% Secant Modulus	141,000	psi	ASTM D790
Tensile Stress @ Yield	3,540	psi	ASTM D638
Tensile Stress @ Break	4,970	psi	ASTM D638
Elongation @ Break	635	%	ASTM D638
Heat Deflection Temp. @ 66 psi	68	°C	ASTM D746

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