

Lithene *ultra* AH is a highly viscous, low molecular weight, liquid polybutadiene with a high content of 1,2 vinyl and cyclic vinyl microstructures. It is a low odour and low VOC product used as a binder in automotive adhesives, coagent for EPDM rubbers and in hard electrical encapsulation systems.

For further information regarding this product please refer to:

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TYPICAL APPLICATIONS

Automotive semi structural adhesives

Hard electrical encapsulants

Coagent in EPDM rubber compounds

Lithene *ultra* AH is despatched from our UK production plant.

Property	Typical Value	Unit	Method ¹
Vinyl 1,2	45 - 55	%	LTM 03
Viscosity, @ 35°C	400 - 700	dPa.s	LTM 01
Non volatile content	>98.0	%	LTM 51
Colour	Max 200	Hazen	LTM 04
Typical molecular weight Mn	1300	Da	
Molecular weight distribution	Broad		
Appearance	Colourless to pale yellow viscous liquid		

¹ internal method based upon the specified norm

Application Advice

Handling - Lithene *ultra* AH is a highly viscous liquid polymer. The viscosity of the product will decrease rapidly with increasing temperature and the product may be warmed to allow easier processing.

Compatibility - Liquid polybutadienes are generally compatible with most aliphatic and aromatic hydrocarbon solvents. They have limited solubility in alcohols, ketones and esters. Further details are available on request.

Lithene *ultra* AH is a reactive polymer with a combination of 1,2 vinyl and cyclic vinyl micro structures which cure to give extremely high cross link densities. Lithene *ultra* AH is very low in odour and volatiles and is ideally suited for use in sulphur or peroxide cured EPDM rubber systems as a processing aid and to improve physical properties.

Lithene *ultra* AH will readily cure at 160 - 200 °C in sulphur cured direct to oily metal, automotive adhesive systems particularly where high bond strengths are demanded. Adhesion of such sealants can be further increased by including Lithene *ultra* AL-15MA in the sealant formulation.

Lithene *ultra* AH can be cured with aromatic monomers and an appropriate peroxide initiator to form a hard, insulating resin for electric and electronic systems.

Further application and formulation advice is available on request.

Shipping and Storage

Lithene *ultra* AH should be stored in cool, dry conditions below +30 °C (+86 °F). If stored in the original sealed packaging the product has a shelf life of at least 12 months from date of delivery. Product which has been stored for longer than 12 months should be tested before use. Containers which have been opened should be purged with dry nitrogen before resealing to protect the remaining product from oxidative skinning. Further information is available on the datasheet Storage of Lithene Liquid Polybutadienes. Lithene *ultra* AH is packed in open top or bung top 200litre steel drums containing 175kg. The minimum order quantity is one pallet (four drums). 900kg IBCs are also available.

Product Safety

Before handling, please read the Safety Data Sheet of this product for advice on safety, use and disposal.