

Lithene *ultra* AL is a viscous low molecular weight, liquid polybutadiene with high content of 1,2 vinyl and cyclic vinyl microstructures. It has low odour and is used as a binder in automotive sealants and in UV cured flexographic printing plates.

For further information regarding this product please refer to:

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## TYPICAL APPLICATIONS

Automotive sound damping sealants

Automotive semi structural adhesives

Antifoaming coating additives

Plasticiser for flexographic printing plates

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

Property	Typical Value	Unit	Method <sup>1</sup>
Vinyl 1,2	40 - 55	%	LTM 03
Viscosity, @ 25 °C	30 - 55	dPa.s	LTM 01
Non volatile content	>95.0	%	LTM 51
Colour	200 max	Hazen	LTM 04
Typical molecular weight Mn	700	Da	
Molecular weight distribution	Broad		
Appearance	Colourless to pale yellow liquid		

<sup>1</sup> internal method based upon the specified norm

## Application Advice

**Handling** - Lithene *ultra* AL is a viscous liquid polymer. The viscosity of the product will decrease rapidly with increased 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* AL is a reactive polymer with a combination of 1,2 vinyl and cyclic vinyl micro structures which give extremely high cross link densities. Lithene *ultra* AL is a low odour product which can be readily formulated into sulphur cured sealants and adhesives cured at 160 - 200°C. Such sealants can be applied directly to oily metal and adhesive strength can be further increased by combining with a maleinised Lithene grade such as Lithene *ultra* AL-15MA or Lithene *ultra* PM4-7.5MA.

Lithene *ultra* AL can also be used as the base for specialised antifoams in the coatings industry and as a reactive rubber plasticiser in UV cured flexographic printing plates.

Further applications advice is available on request.

## Shipping and Storage

Lithene *ultra* AL 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* AL is packed in bung top 200litre steel drums containing 175kg. The minimum order quantity is one pallet (four drums), 900kg IBCs and bulk deliveries

are also available

## **Product Safety**

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