

Lithene *ultra* PH is a viscous, low molecular weight, liquid polybutadiene with a high content of 1,2 vinyl microstructure. It has extremely low odour and volatiles and is used in EPDM rubbers as a coagent and formulation of hard electrical encapsulants.

For further information regarding this product please refer to:

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## TYPICAL APPLICATIONS

Coagent in EPDM rubber compounds

Hard electrical encapsulants

Antifoaming coating additive

Reactive plasticiser in UV cure flexographic printing plates

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

Property	Typical Value	Unit	Method <sup>1</sup>
Vinyl 1,2	35 - 50	%	LTM 03
Viscosity, @ 25°C	65 - 90	dPa.s	LTM 01
Non volatile content	>99.8	%	LTM 51
Colour	200 max	Hazen	LTM 04
Typical molecular weight Mn	2600	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* PH is a 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 many hydrocarbon solvents and plasticisers. Lithene *ultra* PH is very hydrophobic and has limited compatibility with alcohols, ketones and esters. Further details are available on request.

With a high content of 1,2 vinyl microstructure, Lithene *ultra* PH can be used as a coagent in peroxide cured EPDM rubber compounds, increasing modulus and compression set.

Lithene *ultra* PH can be combined with a high temperature peroxide and aromatic monomer to form a hard insulating resin for protecting electrical and electronic systems.

In flexographic print plates Lithene *ultra* PH can act as a reactive plasticiser with good compatibility with solid rubbers and high reactivity during UV exposure.

Further application and formulation advice is available on request.

## Shipping and Storage

Lithene *ultra* PH 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* PH is packed in bung top 200litre steel drums containing 175kg. The minimum order quantity is one pallet (four drums). 900kg IBCs or 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.