

Lithene *ultra* PM4 is a low viscosity, low molecular weight, liquid polybutadiene with a medium content of 1,2 vinyl microstructure. It is extremely low in both odour and volatiles and is used as the binder in automotive sound damping sealants, polyurethane mould release systems and solvent based coating additives.

For further information regarding this product please refer to:

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## TYPICAL APPLICATIONS

Automotive sound damping sealants  
Antifoaming coating additives  
Non volatile drying oil in alkyd coatings  
Sand binder for paving and moulds

Lithene *ultra* PM4 is despatched from our UK production plant.

Property	Typical Value	Unit	Method <sup>1</sup>
Vinyl 1,2	15 - 25	%	LTM 03
Viscosity, @ 25° C	7.0 - 9.5	dPa.s	LTM 01
Non volatile content	>99.8	%	LTM 51
Colour	200 max	Hazen	LTM 04
Typical molecular weight Mn	1500	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* PM4 is a low viscosity, easily processed liquid polymer. It will flow readily at ambient temperatures but the product viscosity 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* PM4 is extremely low in odour and volatiles and can be readily formulated into sulphur cured automotive sealants and acoustic dampers, cured at 160 - 200 °C. Lithene *ultra* PM4 provides excellent adhesion, flexibility and acoustic damping although metal adhesion can be further increased by inclusion of a functional Lithene grade such as Lithene *ultra* AL-15MA or Lithene *ultra* PM4-7.5MA.

Lithene *ultra* PM4 can be dried oxidatively at ambient temperatures in combination with metallic driers and can be used as a replacement to solvent in alkyd based coatings and as an air dry binder in sand for paving and moulds.

Lithene *ultra* PM4 can be incompatible with many polar systems making it suitable for use in the formulation of specialised mould release coatings for polyurethanes.

Further application and formulation advice is available on request

## Shipping and Storage

Lithene *ultra* PM4 should be stored in a cool, dry location 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* PM4 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.