

Lithene *ultra* N4-5000 is a medium viscosity, narrow molecular weight, liquid polybutadiene with a low content of 1,2 vinyl micro structure. It is extremely low in both odour and volatiles and it can be used as a component in PU mould release formulations or as a base for further chemical modification such as maleinisation.

For further information regarding this product please refer to:

Malcolm McInnes

Phone: +44(0)1279 436211

eMail: Malcolm.McInnes@synthomer.com

TYPICAL APPLICATIONS

Polyurethane foam mould release additive

Dry sand binder

Base polymer for maleinisation

Lithene *ultra* N4-5000 is despatched from our UK production plant.

Property	Typical Value	Unit	Method ¹
Vinyl 1,2	10 - 20	%	LTM 03
Viscosity, @ 25 °C	30 - 50	dPa.s	LTM 01
Non volatile content	>99.8	%	LTM 51
Colour	200 max	Hazen	LTM 04
Typical molecular weight Mn	5000	Da	
Molecular weight distribution	Narrow		
Appearance	Colourless to pale yellow liquid		

¹ internal method based upon the specified norm

Application Advice

Handling - Lithene *ultra* N4-5000 is a medium viscosity 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* N4-5000 can be oxidatively dried by heating thin films at 160 - 200 °C or by addition of metallic driers, to give hydrophobic coatings with good adhesion. Combination with metallic driers also allows the product to act as a binder for dry sand. Lithene *ultra*® N4-5000 can be incompatible with many polar systems making it suitable for use in the formulation of mould release coatings for polyurethanes. A narrow molecular weight distribution makes Lithene *ultra* N4-5000 very suitable for further chemical modification with for example, maleic anhydride, with the resultant compounds having a wide range of further reactivities and applications. Further application and formulation advice is available on request.

Shipping and Storage

Lithene *ultra* N4-5000 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* N4-5000 is packed in 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.