

Lithene *ultra* N4-5000-15MA is a highly viscous, low molecular weight, liquid polybutadiene. It is very low in odour and volatiles and is based on a narrow molecular weight polybutadiene adducted with 15 parts maleic anhydride.

For further information regarding this product please refer to:

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TYPICAL APPLICATIONS:

Soft, isocyanate free electrical encapsulants

Adhesion promoter in automotive sealants

Rubber to metal adhesion promoter

Impact modifier for polyester resins

Lithene *ultra* N4-5000-15MA is despatched from our UK production plant.

Property	Typical Value	Unit	Method ¹
Viscosity@ 25 °C	1200 - 2200	dPa.s	LTM01
Total Acid	70 - 78	mg KOH/g	LTM54
Residual maleic	0.05 max	%	LTM52
NVC (180 °C 30mins)	>99.8	%	LTM51
Typical molecular weight Mn	5750	Da	
Molecular weight distribution	Narrow		
Appearance	Golden viscous liquid		

¹ internal method based upon the specified norm

Application Advice

Handling - Lithene *ultra* N4-5000-15MA is a highly viscous, liquid polymer. It will flow at ambient temperatures but viscosity will decrease with increasing temperature allowing easier pumping and mixing.

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.

Applications - Lithene *ultra* N4-5000-15MA when formulated with an appropriate amine cross-linker and coreactant such as a reactive polyol, can form the basis of a soft, isocyanate free electrical encapsulant. The resultant gel has excellent electrical resistance and remains flexible across a very wide temperature range. Lithene *ultra* N4-5000-15MA may be added to rubber compounds either directly or mixed with filler, to improve adhesion between rubber and reinforcements. It is possible to make an aqueous alkaline solution from the product, further details are available on request.

Shipping and Storage

Lithene *ultra* N4-5000-15MA 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 and hydrolysis. Further information is available on the datasheet Storage of Lithene Liquid

LITHENE™ ULTRA

N4-5000-15MA



Polybutadienes.

Lithene *ultra* N4-5000-15MA is packed in open top 200 litre steel drums containing 188kg and is typically made to order. The minimum order quantity is one pallet (four drums).

Product Safety

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