

Lithene *ultra* N4-B-10MA is a viscous, low molecular weight, liquid polybutadiene. The polymer is very low in odour and volatiles and is produced from a broad molecular weight polybutadiene base, adducted with 10 parts maleic anhydride.

For further information regarding this product please refer to:

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TYPICAL APPLICATIONS:

Adhesion promoter in automotive sealants
Soft, isocyanate free electrical encapsulants
Rubber to metal bonding
Formulation of slow release fragrance gels

Lithene *ultra* N4-B-10MA is despatched from our UK production plant.

Property	Typical Value	Unit	Method ¹
Viscosity@ 25 °C	600 - 900	dPa.s	LTM01
Total Acid	49 - 59	mg KOH/g	LTM54
Residual maleic anhydride	0.05 max	%	LTM52
Non volatile content	>99.8	%	LTM51
Typical molecular weight Mn	8200	Da	
Molecular weight distribution	Broad		
Appearance	Golden viscous liquid		

¹ internal method based upon the specified norm

Application Advice

Handling - Lithene *ultra* N4-B-10MA is a viscous, liquid polymer. The viscosity of the product will decrease rapidly with increased temperature and the product will normally require gentle heating to improve flow and handling. 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-B-10MA when formulated with an appropriate amine cross-linker or reactive polyol, can form the basis of an isocyanate free soft gel encapsulant. The resultant gel has excellent electrical resistance. The same principle can be used to formulate gels for controlled release of oil based fragrances. Lithene *ultra* N4-B-10MA has a very low volatile content so is ideally suited for use as an adhesion promoter in direct to metal automotive sealants. It has also been seen to improve tensile and impact properties of polyester resins once the resin has cured.

Shipping and Storage

Lithene *ultra* N4-B-10MA 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 Polybutadienes. Lithene *ultra* N4-B-10MA is packed in open top 200 litre steel drums containing 188kg. The minimum order quantity is one pallet (four drums)

LITHENE™ ULTRA N4- B-10MA



Product Safety

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