



**KALENE® 800**

KALENE® 800 is a low molecular weight liquid polymer derived by the depolymerization of butyl rubber. It vulcanizes at either ambient or elevated temperature with the standard curatives for butyl rubber.

KALENE® 800 is light gray and contains no solvents or additives. KALENE® 800 has the lower viscosity of the two KALENE® grades available and is the preferred liquid butyl rubber for coatings applications.

KALENE® 800 provides gas impermeability, chemical resistance, moisture resistance, good electrical properties, and excellent vibration/sound damping qualities.

Technology / Base	Butyl
Type of Product	Elastomer
Appearance / Color	Light Gray
Typical Viscosity Range	800,000 to 1,150,000 cps @ 66° C
Consistency	Viscous Liquid

**Features and Benefits**

KALENE® 800 offers the performance benefits of butyl rubber and the processing convenience of a liquid. It makes convenient bases for sealants, coatings, and adhesives. These coatings have higher solids than those based on butyl rubber because the KALENE® products are liquids.

KALENE® elastomer's butyl properties impart chemical resistance to a wide variety of sealants and adhesives. It is ideal for applications requiring chemical and moisture resistance.

KALENE® products also provide tack to pressure sensitive adhesives and improve the adhesion of butyl-based adhesives and sealants. Since they cure by the same mechanism as butyl rubber, they become part of the polymer matrix.

**Recommended For**

Typical applications include the following:

- A base polymer for chemical and moisture resistant tank linings and coatings.
- A base polymer for underwater marine coatings.
- A base polymer for water resistant roof coatings or other construction sealants.
- A non-fugitive reactive plasticizer and processing aid for high molecular weight butyl polymers.
- Polymer base for molding and tooling systems.
- Polymer base for electrical encapsulants.
- Production of pressure sensitive adhesives.

H.B. Fuller offers a Compounding Guide with starting point formulas for these and other applications.

**Handling**

KALENE® products are high viscosity polymers. Heating the drum lowers the viscosity for easier handling. Vent the drums before heating to avoid pressure build up.

KALENE® liquid polymers can be compounded with virtually any type of rubber processing equipment. Processing requirements vary with the desired finished properties and with the other formulation ingredients.

**Storage and Shelf Life**

Store in a dry environment to prevent damage to the packaging. The liquid rubber products are stable over a wide temperature range. They are not damaged by freezing temperatures or occasional short-term exposure to temperatures of 66°C (150°F). The shelf life is a minimum of two years if stored properly in an unopened container.



## Typical Packaging

KALENE® 800 is available in the following standard packages:

- 100 Lb. release coated fiber keg
- 350 Lb. steel drum

## Safety and Disposal

Prior to working with this or any product consult product label and Safety Data Sheet (SDS) for necessary health and safety precautions.

## Technical Data

Property	Typical Value	Test Method
Specific Gravity	0.92	ASTM D1875
Density (lb/gal)	7.7	ASTM D1875
Avg Molecular Wt.	36,000	GPC
Volatiles (Wt %)	0.3	ASTM D1416
Ash (Wt %)	0.1	ASTM D1416
Unsaturation (Mole %)	2.5 - 3.5	Ozone Analysis
Solids (%)	100	ASTM D1416

## Viscosity

KALENE® 800 is a low molecular weight grade of butyl rubber. It is a viscous liquid at typical processing temperatures. The table below indicates the viscosity (cP) when heated to typical processing temperatures.

Temperature	Viscosity (cP)
66°C/150°F	800,000
93°C/200°F	150,000
121°C/250°F	40,000
149°C/300°F	16,000

Many systems require both butyl rubber properties and much lower viscosity. The standard method is to dissolve butyl rubber in solvent. KALENE® products are much more soluble than butyl rubber, so they produce adhesives, sealants, and coatings with a lower volatile content (VOC). The viscosity at 25°C of KALENE® 800 in common solvents is shown below:

Solids Content	Visc in Toluene (cP)	Visc in Mineral Spirits (cP)
10%	15	25
50%	380	1,200
90%	900,000	1,500,000

H.B. Fuller Company  
 4401 Page Ave  
 Michigan Center, MI 49254  
 Tel: +1.800.248.4010

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