

# NIAX\* Silicone L-627

URETHANE ADDITIVES - FLEXIBLE SLABSTOCK FOAM



Niax silicone L-627 is a specialty low viscosity silicone, designed specifically for viscoelastic foam and low permeability slab formulations. Its unique cell opening characteristics helps improve processing latitude in tight foam formulations and in high density foams.

### Key Features and Typical Benefits

- Niax silicone L-627 provides a fine and open cell structure, with good processing latitude
- Generally, Niax silicone L-627 is used in conjunction with other surfactants (Niax silicone SC-154 / Niax silicone SC-155 / Niax silicone L-620)
- Niax silicone L-627 is a candidate for consideration for use in semi-rigid slab foams for automotive headliner systems to help prevent shrinkage.

### Potential Applications

Niax silicone L-627 has found use in the manufacture of high density viscoelastic foams like those used in high-performance bedding. This unique surfactant is of greatest utility when foam having density  $\geq 3.0$  pcf (48 kg/m<sup>3</sup>) is desired.

### Typical Physical Properties

Form	Lightly hazy liquid
Viscosity @ 25°C, cSt	5000
Specific Gravity @ 25°C	0.91
Flash Point, Pinsky Martens Closed Cup (ASTM D 93), °C (°F)	116 (240)
Freezing Point, °F	-52

Note: Niax silicone L-627 can either be premixed with other surfactants or added as a separate stream.

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### Formulations

The following are some typical formulations utilizing Niax catalyst B-4.

Component	Parts	
Polyether Polyol 3500 MW <sup>(1)</sup>	100	100
Water	2.5	4.5
Niax catalyst B-4	0.30	0.15
Stannous Octoate	0.20	0.18
Niax silicone L-620LV	0.60	0.90
TDI 80/20, (Index)	(105)	(108)
<b>Reactivity</b>		
Cream Time, s	12	12
Rise Time, s	112	104
<b>Physical Properties</b>		
Density, kg/m <sup>3</sup>	35.3	21.4
Nopco Air Porosity, scfm	3.5	7.4

(1) hydroxyl 46

### Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

### Product Safety, Handling and Storage

Customers considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any Momentive Performance Materials representative. Use of other materials in conjunction with Momentive Performance Materials products may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

### Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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