



### NIAX\* Silicone L-633

For Polyurethane Flexible Slabstock Foam

### **Product Description**

NIAX\* Silicone L-633 is a high potency, alkyl-pendant organo-silicone for use in flexible foam production of low and ultra-low density foam grades with fillers and high blowing agent concentration. It is designed to provide strong stabilization and good processing latitude. This product is a strong stabilizer, therefore it is not recommended for medium to high-density foam grades.

## Features and Benefits

- High-efficiency Silicone
- Excellent cell stabilization in high methylene chloride and water formulations
- Offers good foam height and low recession while maintaining good foam porosity
- Provides good cell structure and narrow density gradient
- Easy to process in both box and continuous machine for density from 5 to 18 kg/m<sup>3</sup>

# Typical Physical Properties

Appearance	Clear Amber Liquid
Viscosity, 25°C (cSt)	700 - 1200
Specific Gravity, 25°C	1.024
Flash point, °C (Pensky-Martens Closed Cup) *(1)	83

<sup>\*(1)</sup>ASTM Method D93

## Application and General Guide

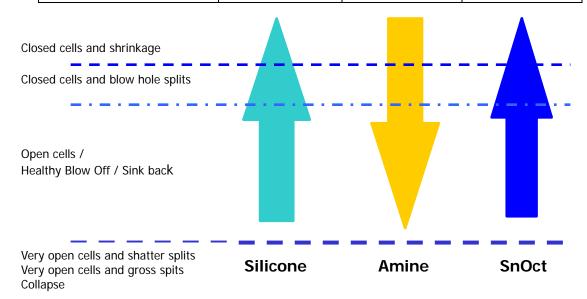
NIAX\* Silicone L-633 is specially designed for use in ultra low or low density slabstock foams that employ very high concentration of water, blow agent or solid fillet. Such formulations may need formulation adjustments as well as adjustment of machine conditions and parameters. Therefore, it is important to gain better understanding of the effect of formulating parameters on the processing such as:

- 1. Blowing agent and filler use level
- 2. TDI index for low density foam grade is commonly at around 120 to 150
- Silicone surfactant potency and use strong potency silicone or excess silicone will over stabilize the system and results in poor foam blow-off or splits
- 4. A balance of amine and tin catalyst is important to maintain a good quality foam.
- Too little SnOct/Polymer gels too late, the filaments contract as liquid drains out of them development of splits
- Excess SnOct/Polymer gel too early, restricted blow off or cell windows do not burst. Tight foam has a dead feel and in severe case, foam may shrink on cooling



# General Guide (Cont')

Additive Requirements	Silicone	Amine	Sn Oct			
Variable	Effect on increasing fomulation variables on					
	additives dosage					
Water	<b>1</b>	<b>\</b>	<b>+</b>			
Blowing	<b>1</b>	<b>↑</b>	<b>↑</b>			
Filler	<b>1</b>	No	1			
TDI Index	No	<b>\</b>	<b>+</b>			





### **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

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### Limitations

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

#### PRINCIPAL LOCATIONS - Regional Information

North America	World Headquarters 187 Danbury Road Wilton, CT 06897, USA		T 800.295.2392	F 607.754.7517
Latin America	Rodovia Eng. Constâncio Cintra, Km 78,5 Itatiba, SP – 13255-700, Brazil		T +55.11.4534.9650	F +55.11.4534.9660
Europe, Middle East, Africa and India	D-51368 Leverkusen Germany		T 00.800.4321.1000 T +31.164.293.276	F +31.164.241.750
Pacific	Akasaka Park Building - 5-2-20 Akasaka Minato-ku, Tokyo 107-6112 Japan		T +81.3.5544.3100	F +81.3.5544.3101
CUSTOMER SERVICE CEI	NTERS			
North America	Charleston, WV 25314, E cs-na.silicones@momentive.com	USA		
	Specialty Fluids		T 800.523.5862	F 304.746.1654
	<ul> <li>UA, Silanes, Resins, and Specialties</li> </ul>		T 800.334.4674	F 304.746.1623
	<ul> <li>RTV Products-Elastomers</li> </ul>		T 800.332.3390	F 304.746.1623
	Sealants and Adhesives & Construction		T 877.943.7325	F 304.746.1654
Latin America	E cs-la.silicones@momentive.com			
	<ul> <li>Argentina &amp; Chile</li> </ul>		T +54.11.4862.9544	F +54.11.4862.9544
	<ul> <li>Brazil</li> </ul>		T +55.11.4534.9650	F +55.11.4534.9660
	<ul> <li>Mexico &amp; Central America</li> </ul>		T +52.55.5899.5135	F +52.55.5899.5138
	<ul> <li>Venezuela, Ecuador, Peru, Colombia, &amp; Caribbean</li> </ul>		T +58.212.285.2149	F +58.212.285.2149
Europe, Middle East,	E cs-eur.silicones@momentive.com		T 00.800.4321.1000	
Africa and India	2 da dansinadhea memeritive.dam		T +31.164.293.276	F +31.164.241750
Pacific	E cs-ap.silicones@momentive.com			
	•	Japan		
	E cs-jp.silicones@momentive.com China		T +81.276.20.6182 T +86.21.5050.4666 (ext. 1523)	
		<ul> <li>Singapore</li> </ul>		T +65.6220.7022
Worldwide Hotline	Worldwide	Web	T 800.295.2392	

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