

## Niax\* silicone L-6635

### Description

Niax silicone L-6635 is a premium silicone copolymer, and is an excellent candidate for rigid polyurethane foams manufactured with a continuous lamination process where it will deliver optimum foam surface quality mainly by reducing surface and sub-surface voids.

It is also a versatile surfactant exhibiting good foam stabilization and blowing agent compatibilization that can be effectively used in many other rigid foam applications where those effects are required.

### Key Features and Typical Benefits

- Niax silicone L-6635 is recommended for foams produced by continuous lamination, pentane blown and with both polyurethane (PUR) and polyisocyanurate (PIR) chemistry. In this application it gives optimum foam surface quality. It's performance has been found excellent with n-pentane as the blowing agent, especially when high levels are used.
- Niax silicone L-6635 reduces cell coalescence during foaming and under high shear stress conditions, thus minimizing the formation of voids migrating to the foam-substrate interface. This makes it a great material candidate for fixed gap lamination with either a stationary or traversing head on rigid metal sheet or for flexible gas tight facings where the absence of defects at the foam surface is important.
- Niax silicone L-6635 reduces foam anisotropy and improves compression strength and dimensional stability while maintaining fine cells. It may therefore also be suited for the block and discontinuous process. In addition to pentane blown foam it can be used with HFC's or water blown.
- The common use level range for Niax silicone L-6635 is 1.5 to 4 parts per hundred of polyol (php), the voids reduction effect increases with increasing the level.
- Niax silicone L-6635 offers excellent stability and compatibility with hydrocarbon blowing agents.

### Typical Physical Properties

Form	Clear to slightly hazy liquid
Viscosity at 25°C, cSt	500
Pour Point, °C (°F)	15 (59)
Specific Gravity, 25°C	1.05
Flash Point, Pensky Martens closed cup (ASTM D 93), °C (°F)	90 (194)

**Patent Status**

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