

Niax* silicone L-3415

Description

Niax silicone L-3415 is a low emission silicone that may be considered for use in MDI molded foam. Niax silicone L-3415 can help provide wide processing latitude through excellent foam openness, while maintaining good cell-regulating characteristics and substantial reduction of silicone related emissions when compared to traditional MDI silicone surfactants.

Key Features and Benefits

- Excellent stabilization in MDI HR molded foam formulations producing open foam with HR type cell structure and smooth skin.
- Substantial reduction of silicone emission relative to the traditional MDI silicone.
- Wide processing latitude.
- Open-celled foam, yielding low force-to-crush and low shrinkage.

Typical Physical Properties

Form	Clear liquid
Viscosity at 25°C, cSt	45
Color, Gardner (1963) scale	Pale yellow
Specific Gravity at 23°C	0.92
Flash Point, Pensky Martens Closed Cup (ASTM D 93), °C	>100
Freezing Point, °C	<5

Typical data are average data and actual values may vary. Typical data shall not be used as product specifications.

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Processing Recommendations

The performance of Niax silicone L-3415 is compared to Niax silicone L-3001 in the following table. Niax silicone L-3415 can offer the same foam openness and excellent cell regulation, producing a smooth skin and an HR type cell structure in the bulk of the part.

Table 1: MDI Sample Formulation†

Formulation	Parts by Weight			
Polyether Polyol (OH 28)	100	100	100	100
Cell Opener	1.5	1.5	0.7	0.7
Water (total)	3.6	3.6	3.6	3.6
DEOA (100%)	0.6	0.6	0.6	0.6
Niax catalyst EF-602	1.0	1.0	-	-
Niax catalyst EF-708	0.5	0.5	-	-
Niax catalyst A-400	-	-	0.3	0.3
Niax catalyst A-33	-	-	0.4	0.4
Niax silicone L-3001	0.5	-	1.0	-
Niax silicone L-3415	-	0.5	-	1.0
MDI Index	90	90	100	100
Foam Density, kg/m ³	44.6	44.9	50.9	51.1
FTC (N)	403	416	493	487

Note: Test data. Actual results may vary.

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 should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) 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.

Contact Information

For product prices, availability, or order placement, contact our customer service at Momentive.com/CustomerService/

For literature and technical assistance, visit our website at: www.momentive.com

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