

Niax* Foam Hardener FH-400

Product Description

Niax Foam Hardener FH-400 is a low viscosity additive especially designed for enhanced load bearing in polyether foams. It can be used both with conventional polyether polyols and polymer polyols across a wide range of formulations.

Key Features and Typical Benefits

- Increases foam hardness up to 20%
- Improves processing in low density formulations
- Provides enhanced block stability

Typical Physical Properties

Appearance	Clear liquid
Viscosity at 25 °C, cSt	1400
Specific Gravity at 25 °C	1.11
Hydroxyl Number, mg KOH/g	300
Flash Point (Pensky-Martens Closed Cup (ASTM D 93)), °C	> 180

Typical properties are average data and are not to be used as or to develop specifications.

Formulation and Use

When using Niax Foam Hardener FH-400, the stannous octoate level must be reduced to obtain the same air permeability: typically 7% additive will result in a 20% reduction of stannous octoate. Increase amine catalyst and reduce stannous octoate is the preferred optimization in order to keep the same rise profile. Niax Foam Hardener is miscible with polyether polyol, and can be metered as a pre-blend or separately. The general guidelines are summarized in the application guide.

The TDI amount should be however be kept at a safe level to ensure the maximum temperature in the block is 165 °C.

Niax Foam Hardener FH-400 Application Guide

Standard Polyol (parts)		
100	95	92
Niax Foam Hardener FH-400 (parts)		
0	5	8
Stannous Octoate Reduction (%)		
0	5	10-20
Amine Increase (%)		
0	5	10
Hardness Increase (%)		
0	5-10	15-20

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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.

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