



Niax* FLE-200LF

URETHANE ADDITIVES – FLEXIBLE FOAM

Description

Niax* Flame Lamination FLE-200LF is a low viscosity - low emission additive designed to improve adhesion properties of polyurethane flexible foam based on polyether polyols. FLE-200LF based foams impart good adhesion properties and bonding strength after flame lamination when compared to other common FL additives used in the market. FLE-200LF is easy to handle and it may be used as sole additive. Particularly suitable for automotive applications where low emission and low fogging properties are required.

Key Features and Benefits

Recommended levels between 4 - 8 parts per hundred parts of polyol (pphp)

Zero phenol and low emission

Wide processing latitude over a wide range of foam formulations

Good processing latitude can be maintained in the typical use level range by reducing

Stannous Octoate by 15% to 30% and increasing amine catalyst by 10% to 20%

Addition of FLE-200LF may reduce Flame Retardant use level when compared to other FL products

Rapid re-solidification of melted foams offers stronger initial adhesion strength between foam and textile, thus providing faster lamination speed

FLE-200LF is a reactive material resulting in lower fogging and VOC potential

Good peeling strength can be achieved across a broad range of textiles and foam densities

Typical Physical Properties

Appearance	Clear, Liquid
Viscosity at 25 °C, cSt	300 - 500
Specific gravity at 25 °C	1.05
Hydroxyl value, mg KOH/g	460
Flash Point (Pensky-Marten Closed Cup ASTM D 93), °C	>100

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



Flame Bonding Overview

Niax FLE-200LF provides flexible polyurethane foam good adhesion to textile during flame lamination processes. The product can be used with and without auxiliary flame retardants.

Improved peeling strength can be achieved by using Niax FLE-200LF in combination with Niax Silicone L-645FL

Ether Foam	Flame Retarded Foam	Niax FLE-200LF	Ester Foam
Low Foam Adhesion			Strong Foam Adhesion

Storage

Niax FLE-200LF reacts with atmospheric moisture to generate acids. Care should be taken to avoid moisture in the handling of this additive. Samples as well as product should be stored in tightly sealed containers. In these conditions shelf life is 48 months. It is recommended to meter the product via a separate line.



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Patent Status

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