

AMERICAS

# POLYURETHANE ADDITIVES GUIDE

RIGID & MOLDED FOAMS,  
SPECIALTY APPLICATIONS



ALWAYS ONE  
STEP AHEAD



## CONTENTS

A Leader in Polyurethane Additives	3
Momentive™ Polyurethane Additives Global Sites	4
Polyurethane Additives for Rigid & Molded Foams and Specialty Applications	5
Niax™ Additives for Molded Foams	6-7
Niax Additives for Rigid Foams	8-15
Niax Additives for Specialty Applications	16-19

## A LEADER IN POLYURETHANE ADDITIVES

**Momentive Performance Materials, Inc. offers one of the most trusted and diverse polyurethane additive product lines in the industry, ranging from a broad array of silicone stabilizers and a full portfolio of amine and metal-based catalysts to a selection of organic-based property modifiers.**

Developed in 1962, Niax brand additives have long been essential ingredients in polyurethane formulations used to meet the specialized processing and performance needs of customers across the globe. Niax grades include a comprehensive line of silicones, catalysts, and process modifiers for polyurethane foam production.

Momentive is a pioneer in the polyurethanes additives industry and continues to serve customers with leading innovations, creative solutions, and excellent application expertise.

## MOMENTIVE POLYURETHANE ADDITIVES GLOBAL SITES



## POLYURETHANE ADDITIVES FOR RIGID & MOLDED FOAMS AND SPECIALTY APPLICATIONS



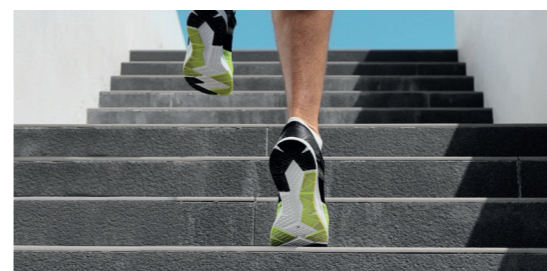
### SILICONES FOR MOLDED FOAMS

Automotive seating  
Head rest  
NVH applications



### SILICONES FOR RIGID FOAMS

Appliances  
Panels  
Discontinuous applications  
Spray  
One Component Foam



### SILICONES FOR SPECIALTY APPLICATIONS

Shoe soles  
Automotive parts  
Cushioning  
Mechanical froth  
CASE



### CATALYSTS

Amine catalysts  
Trimerisation catalysts and additives  
Metal catalysts  
Low-emission catalysts

# NIAX MOLDED FOAMS



Silicones	HR TDI	TDI / MDI	HR MDI	VE MDI	Product Description
L-3881				○	Stabilizing low-emission silicone for viscoelastic foams, co-silicone together with L-3639
L-3882				○	Balanced low-emission silicone for viscoelastic foams, fine cell structure, stand alone
L-3639		○	○	○	Very low-emission, medium-potency silicone providing good stabilization along with good foam openness, co-silicone for VE
L-3639S		○	○	○	Very low-emission, medium-potency silicone offering good stabilization along with good foam openness, co-silicone for VE, water-soluble
L-3415			○		Lower-emission silicone with high cell-opening
L-3416		○	○		Lower-emission silicone with medium cell-opening
L-3620	○	○			Low potency cell regulator, lower emissions for TDI/MDI Technology
L-3640	○	○			High-efficiency, lower-emission silicone for TDI/MDI Technology
L-3556S	○	○			Low-emission, medium-potency, water-soluble silicone
L-3185	○				Low-emission, high-efficiency balanced silicone
L-3167	○	○			Cell regulator; co-silicone surfactant for TDI
L-5309J	○	○	○		High-efficiency balanced silicone
L-3001		○	○		High cell-opening silicone
L-3002		○	○		Medium cell-opening silicone, low freezing point
L-3222		○	○		Medium-potency, high-efficient cell-opening
Y-10366J	○	○	○		High-efficiency; balanced silicone

TDI/MDI = Typically 80/20 blend, TDI = Toluene Diisocyanate, MDI = Methylene Diphenyl Diisocyanate, HR = High Resilience, VE = Viscoelastic



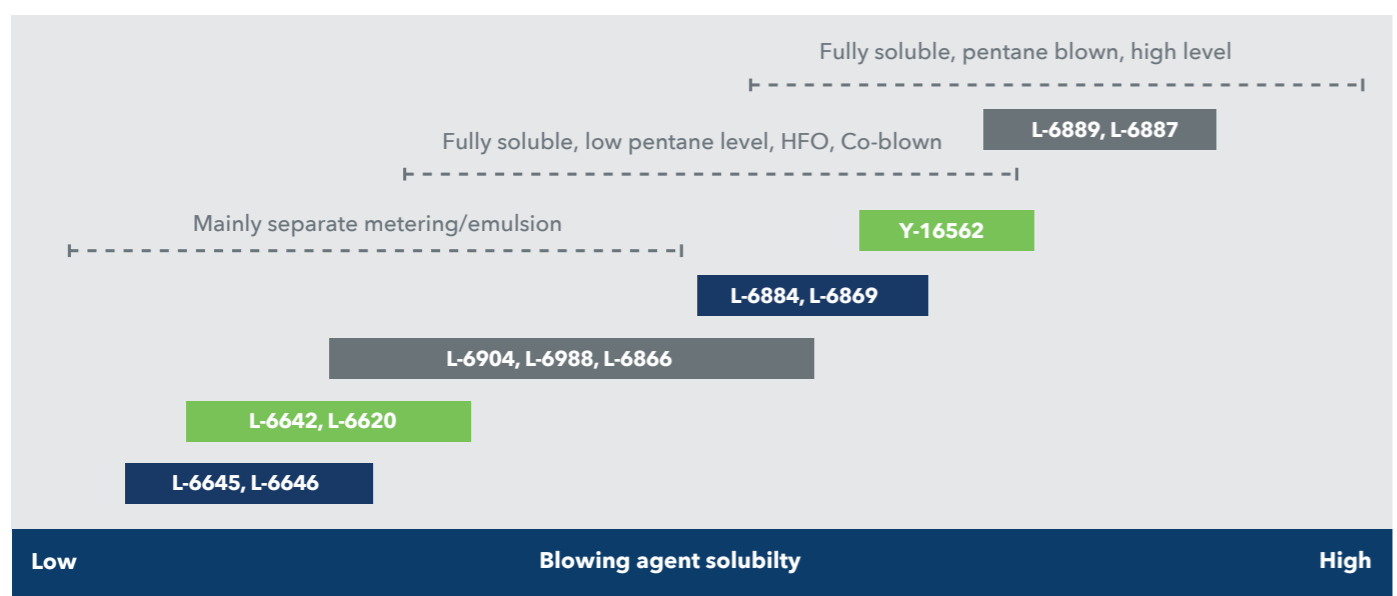
Catalysts	Blow Amine Catalyst	Balanced Amine Catalyst	Gel Amine Catalyst	Product Description
<b>Low-emission Catalysts</b>				
EF-100	○			Reactive low-emission blow catalyst
EF-150	○			Delayed-action reactive low-emission blow catalyst
EF-600		○	○	Balanced catalyst; predominantly gel
EF-602		○	○	Balanced delayed catalyst; predominantly gel
EF-620		○	○	Balanced catalyst, predominantly gel, high-efficiency, low water
EF-680		○	○	Balanced delayed catalyst; predominantly gel can offer improved curing
EF-700	○	○		Balanced catalyst; predominantly blow
EF-705	○	○		Balanced cell-opening delayed catalyst; predominantly blow
<b>Niax Catalysts</b>				
A-1	○			Standard blow catalyst
A-107	○			Delayed-action blow catalyst
A-400	○			Delayed-action load building (TDI), cell-opening, improved flowability MDI
A-440	○			Delayed-action load building (TDI), higher cell-opening, improved flowability MDI, low water
A-4	○			Catalyst for improved surface cure
C-174	○			HR MDI blow catalyst
C-225		○		Balanced delayed-action catalyst
C-247			○	Delayed-action gel catalyst
A-300			○	Delayed-action load-building; cell-opening gel catalyst (low corrosion)
A-305			○	Stronger delayed action load building; cell opening gel catalyst (low corrosion)
A-33R			○	Key gel catalyst



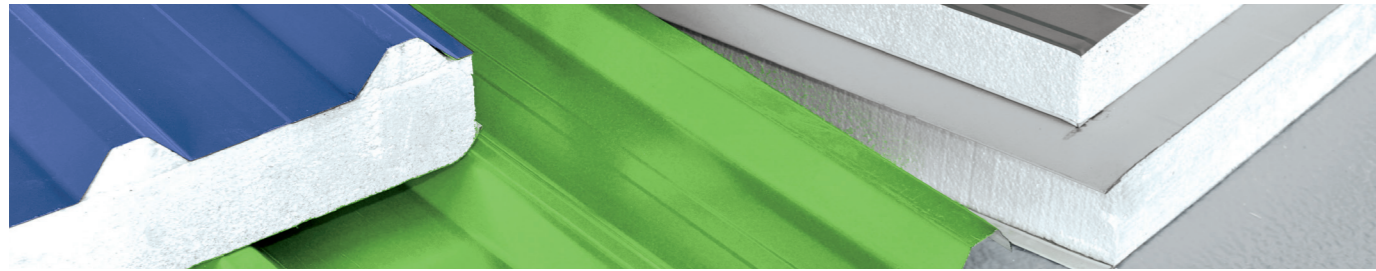
**SILICONES FOR DISCONTINUOUS APPLICATIONS**

Silicones	Fine Cells	Pentane Solubility In Polyols	Blowing Agents Emulsification	Cell Stabilization	Foam Flow	Void Reduction	Product Description
L-6869	●●●●	●●●	●●●	●●●	●●●●	●●●	Can be used with hydrocarbons or HFO to improve foam flowability and provide low thermal conductivity
Y-16562	●●●●	●●●●	●●●	●●●	●●●	●●●●	High-purity silicone, can be used with hydrocarbons or HFO to improve foam voids and provide low thermal conductivity and excellent solubility
L-6887	●●●●	●●●●	●●●●	●●●●	●●●	●●●	Excellent polyol/pentane solubility - can provide very fine cells for discontinuous applications especially refrigerators
L-6884	●●●●	●●●	●●	●●●●	●●●	●●●	Can improve polyol/pentane or HFO compatibility - can provide very fine cells and good flow, for refrigerators and all discontinuous applications
L-6866	●●●●	●●	●●	●●●●	●●●	●●●●	For pentane-blown refrigerators and discontinuous panels to reduce surface voids formation, while still delivering excellent lambda value
L-6988	●●●●	●●	●●●	●●●	●●●	●●●	Very fine cells with pentane and HFO/HC, increase froth shear stability thus reducing voids formation, good storage stability in acidic condition
L-6904	●●●●	●●	●●●●	●●●●	●●●●	●●●	Strong emulsifier, fine cells with all blowing agents - continuous and discontinuous applications
L-6889	●●●	●●●●	●●●	●●●●	●●●●	●●●	Very high polyol-pentane solubility for excellent blend stability, good flow and void reduction
L-6112	●●	●●●●	●●	●●●	●●●	●●●●	High-purity silicone, can be used with hydrocarbons or HFO, produce foams with good dimensional stability, low voids, and good fire properties
Y-16533	●●	●●●●	●●	●●●	●●●●	●●●	High-purity silicone, excellent storage stability with HFO, improved flow and fire properties

**Relative Scale of Niaux Silicone Contribution to Blowing Agent Solubility in Rigid Foam System Applications**



HFO = Hydrofluoro Olefin, PIR = Polyisocyanurate, PUR = Polyurethane, HC = Hydrocarbons  
 Features: Strong = ●●●●, Moderate = ●



## SILICONES FOR CONTINUOUS APPLICATIONS

Silicones	Fine Cells	Pentane Solubility In Polyols	Blowing Agents Emulsification	Cell Stabilization	Foam Flow	Void Reduction	Product Description
<b>Metal Panel</b>							
<b>L-6620</b>	●●●●	●●	●●●	●●	●●●	●●●	For HFO and pentane, good flow and dimensional stability
<b>L-5440</b>	●●	●●●●	●●	●●●●	●●●	●	For HFC's and pentane co-blown with water, good flow and dimensional stability
<b>L-6633</b>	●●●	●●●	●●●	●●●	●●●	●●●	Reduced foam voids formation in continuous and discontinuous applications
<b>L-6645</b>	●●	●●	●●	●●	●●●	●●●●	Excellent silicone properties offering a reduction in foam voids
<b>L-6642</b>	●●●	●●	●●	●●	●●●●	●●●	Balanced stabilizer with good voids control and flow for both continuous and discontinuous processes, suitable for all blowing agents included formic acid and HFOs

Silicones	R Value	Pentane Emulsification	Flow/Flatness	Compressive Strength	Surface Quality	Pentane Isomer	Key Performance Benefit
<b>PIR Flex Face</b>							
<b>L-5111</b>	●●●●	●●●	●●	●	●●	c	Fine cells with mainly cyclo-pentane blowing agents - for PIR/PUR boardstock
<b>L-5112</b>	●●●	●●●●	●●	●●	●●●	n/i/c	Improves mixing quality and emulsification of pentane up to high usage level of iso-pentane, improved foam quality and yield, and reduced laydown defects
<b>L-5151</b>	●●●	●●●	●●●	●●●	●●●	n/i	Broad processing window silicone with good compatibility and flow in PIR formulations
<b>L-5466</b>	●●●	●●●	●●●	●●●	●●●●	n/i/c	Strong nucleation and stabilization can reduce surface voids when using gas-tight facings, helps compatibility with APP's
<b>L-5141</b>	●●●	●●●	●●●●	●●●●	●●●●	n/i	Good flow, good compressive, good surface finish
<b>Y-16548</b>	●●●●	●●●	●●●	●●●	●●●	n/i/c	Highest aged R-Value and TDRV
<b>Y-16561</b>	●●●●	●●●	●●●●	●●●●	●●●●	n/i	High aged R-Value and TDRV good compressive strength, and good surface finish

HFO = Hydrofluoro Olefin, PIR = Polyisocyanurate, PUR = Polyurethane, TDRV=Temperature Dependent R- Value  
Features: Strong = ●●●●, Moderate = ●●



## SILICONES FOR ONE COMPONENT FOAMS

Silicones	Yield	Dimensional Stability	Structure	Flow	Solubility	Product Description
<b>L-5345</b>	●●●●	●●●	●●●	●●●	●●●	Excellent candidate for fine cells and good dimensional stability performance. Can provide excellent performance in summer/winter formulations with high levels of fillers
<b>L-5348</b>	●●●●	●●●	●●●	●●●	●●●	High froth volume, good compatibilization, and excellent storage stability
<b>L-5350</b>	●●	●●	●●●	●●	●●	Multipurpose stabilizer mainly for straw foam applications
<b>L-5351</b>	●●●●	●●●	●●●	●●●	●●●	Improved miscibility of components, smooth flow, fine cells, and good dimensional stability. Recommended for high-yield foams, winter grades and formulations, including chloroparaffin
<b>L-5360</b>	●●	●●	●●●	●●	●●	Balanced properties in a variety of formulation types also when high levels of fillers are used
<b>Y-16371</b>	●●●●	●●	●●●●	●●●●	●●●	Excellent performances in winter conditions and premium foams. Easy flow and low expansion rate
<b>Y-16450</b>	●●●●	●●●●	●●●	●●●●	●●●	Improved dimensional stability at low density, well balanced, easy flow and pop-corn like froth
<b>L-5388</b>	●●●●	●●	●●●	●●●●	●●	Excellent for low-density foams, also open cells spray and packaging. Wide compatibility with polyethers and polyesters, strong foam stabilization
<b>L-6164</b>				●●●●		Very efficient cell-opener and cell regulator, use level 0.1 - 0.7 % on prepolymer composition



## SILICONES FOR SPRAY FOAM SYSTEMS

### Closed Cells Spray Foam Systems

Silicones	K-Factor	Surface Finish	Flow	HFO Shelf-Life	Fire Resistance	Product Description
L-6972	●●●●	●●●	●●●	●●●●	●	Excellent thermal insulation properties, good flow and fine cells
L-6888	●●●●	●●●	●●	●●●●	●●●●	Good thermal conductivity and surface quality. Improved fire performance
L-5107LF	●	●●●●	●●●●	●●●●	●●	Excellent cell stabilization for improved mechanical properties and compressive strength
L-5420	●●	●●	●●	●●	●●●●	Medium-high efficiency silicone, wide processing latitude. Excellent cell stabilization
L-6110	●	●●	●●	●●●	●●●●	Good dimensional stability and fire properties
L-6642	●●●●	●●●●	●●●	●●●●	●●	Balanced stabilizer giving excellent nucleation, fast foam thickening with good voids control and flow, also used in continuous and discontinuous panels production, can be used for all blowing agents
Y-16533	●●	●●●●	●●●	●●●●	●●●●	High-purity silicone, excellent storage stability with HFO, improved flow and fire properties

HFO = Hydrofluoro Olefin

### Open Cells Spray Foam Systems

Silicones	Fine Cells	Cell-opening	Cell Stabilisation	Product Description
L-6186	●●	●●●●	●●	Open-cells systems, polyester or polyether-based, for densities up to 30 kg/m <sup>3</sup>
L-6189	●●●●	●●●	●●●	Excellent for low-density foams, 10-15 kg/m <sup>3</sup> , water-blown, polyethers or polyesters-based, fine and homogeneous cell structure, good polyol solubility
L-5388	●●●	●	●●●●	Excellent for low-density foams such as packaging and OCF. Wide compatibility with polyethers and polyesters, strong foam stabilization
Y-16312	●●●	●●	●●●●	Surfactant for improved yield and processing

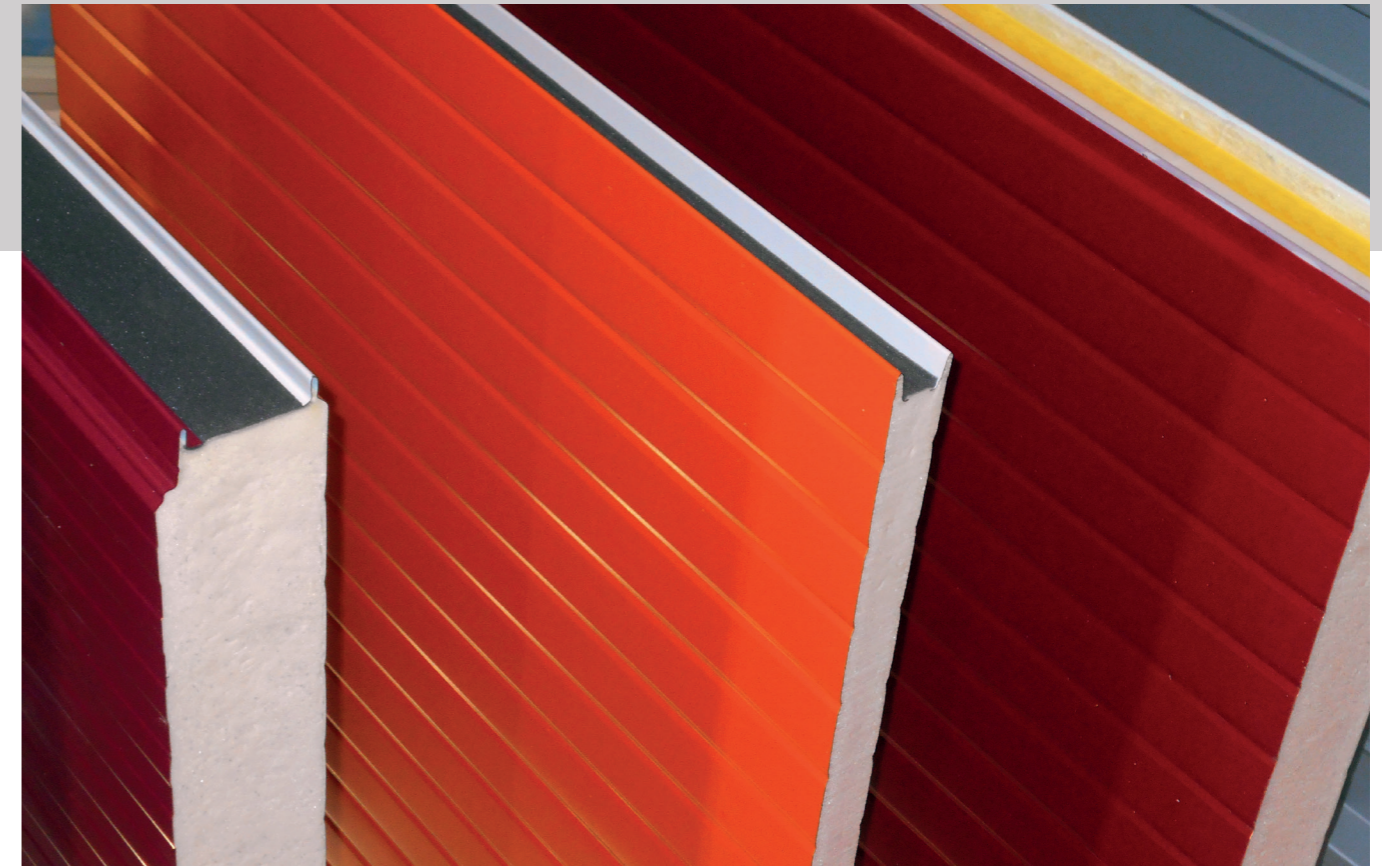
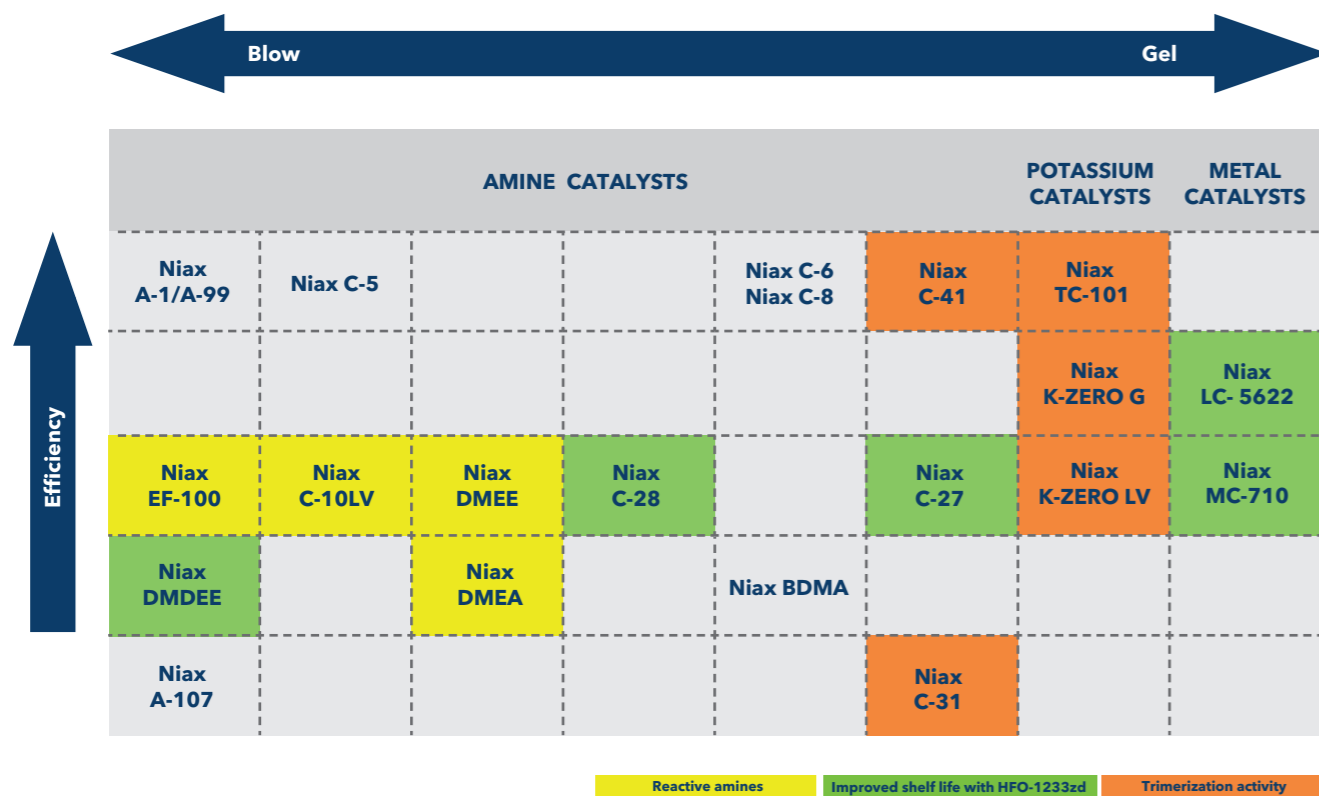
Catalysts	PUR Discontinuous	PUR Continuous Lamination & Block	PIR Continuous Lamination & Block	Water Blown PUR	Packaging, Open Cells Foam	Product Description
A1/A-99	●	●	●	●	●	Very effective blowing catalyst, promote selectively water-NCO reactions, can improve foam flow and rate of expansion
C-5	●	●	●			General-purpose blowing catalyst
EF-100	●	●	●	●	●	Reactive blow catalyst, excellent candidate for applications where low odor is a relevant feature
C-8	●	●		●	●	General-purpose PUR catalyst
C-10LV		●	●	●	●	Reactive amine catalyst, ideal for spray and open-cell applications. Blowing catalyst giving a smooth reaction profile, good candidate also in flexible molded foams
BDMA	●	●		●	●	Dimethylbenzylamine, weak gel catalyst, can reduce surface friability and can improve foam adhesion in particular with mainly water-blown foams
DMEA	●	●				Moderate odour, typically cost-effective, reactive catalyst
DMEE	●			●	●	Moderate odour, typically cost-effective, reactive catalyst, more blowing efficiency compared to DMEA
DMDEE	●				●	Moderate-activity blow catalyst, excellent storage stability also in isocyanate and prepolymers, 1K/OCF foams
C-27	●	●	●	●	●	Low odor catalyst offering improved shelf life for water co-blown systems
C-28	●	●	●	●	●	Balanced blow-gel catalyst, good shelf life with HFO-1233zd
C-31	●	●	●	●		Delayed-action catalyst for PIR and PUR, improve green strength and surface curing, reduce post expansion in thick panels
C-41	●	●	●			Strong gel catalyst promoting both PUR and PIR reaction, promote fast crosslinking, can reduce demold time and improve foam adhesion
A-107	●			●		Acid-blocked delayed-action blow catalyst
MC-710					●	Bismuth-based catalyst, exhibiting strong gel catalytic activity

HFO = Hydrofluoro Olefin, PIR = Polyisocyanurate, PUR = Polyurethane

Catalysts	PUR Discontinuous	PIR Discontinuous Panels	PIR Continuous Lamination & Block	Spray	Water Blown PUR	Packaging, Open Cells Foam	Product Description
<b>Niax Special Additives</b>							
<b>RA-1</b>		●	●		●		Can speed up foam hardening and adhesion without influencing gel time, in particular for PIR foam made with aromatic polyester polyols
<b>AP-01</b>	●	●	●		●		Adhesion promoter additive, can reduce surface friability in high water and/or high index formulations
<b>FRP Polyols</b>	●	●	●	●	●	●	Halogen free additives to help improve fire properties in both PUR or PIR foams
<b>NA-01</b>		●					Silicone-based composition enhancing the nucleation of gas. In combination with a conventional silicone, it reduces the cell size, potentially leading to lower foam thermal conductivity

PIR = Polyisocyanurate, PUR = Polyurethane

### Niax Catalysts for Rigid Foams Applications



### NIAX TRIMERISATION CATALYSTS

Catalyst	Viscosity (typical value @ 25 °C)	Product Description
<b>Potassium Octoate LV</b>	2200-2800	Potassium-based trimerisation catalyst, 15% K, ideal candidate for direct metering in continuous production of PIR panels, also used as curing additive in PUR formulations for lamination
<b>Potassium Octoate</b>	5000-7000	Potassium-based trimerisation catalyst, 15% K, also used as curing additive in PUR formulations for lamination
<b>K-ZERO G</b>	3000	Glycol-free potassium octoate, reduced MDI use and improved cell isotropy in the production of PIR panels
<b>K-ZERO LV</b>	600	Glycol-free potassium octoate, reduced MDI use, low viscosity to facilitate in-line metering
<b>Potassium Acetate</b>	120	15% K containing PIR catalyst
<b>TC-101</b>	180	Trimerisation catalyst based on a non-reprotoxic salt, increased efficiency and enhanced trimer conversion versus standard octoates. Low viscosity to facilitate on-line metering

MDI = Methylene Diphenyl Diisocyanate, PIR = Polyisocyanurate, PUR = Polyurethane





# NIAX SPECIALTY APPLICATIONS

POLYURETHANE COATINGS,  
ADHESIVES, SEALANTS, AND  
ELASTOMERS (CASE)

## NIAX SILICONES

Silicones	Microcellular (Polyether)	Microcellular (Polyester)	SRIM/Composite	Integral Skin Foam	PU Leather/Coatings	Mechanical Froth	Product Description
L-1500	○	○					Standard surfactant for microcellular systems (PES)
L-1501	○	○					Wide processing latitude with excellent open cells for low-medium density systems
L-1507	○	○		○			Low-density polyester or polyether-based microcellular systems with excellent emulsification (> 0,3 g/cc)
L-1568	○	○		○			Low density (0,25-0,35 g/cc) polyester or polyether based microcellular systems, good stabilization, skin and fine cell structure
L-1541		○	○				High-density polyester-based microcellular systems with thick skin and SRIM applications
L-1510	○		○	○			General-purpose surfactant for polyether shoe sole and rigid foam systems, low freezing point
L-5309J	○		○	○			Surfactant for I-skin with HFO or CP, medium-low stabilization, good open foam content
L-5306	○			○			Low VOC strong stabilizing surfactant for I-skin and high-density microcellular applications
L-5302	○		○	○			Medium-stabilizing surfactant can be considered for use in integral skin and high-density polyether-based microcellular systems
L-1131					○		Cell stabilizer for wet process PU leather, provides good deposition, increases thickness, speeds up DMF and water exchange
L-1160					○		Linear reactive silicone, enhance anti-sticking property, good solubility in PU system. Improves leveling in coating application
L-1169					○		Linear reactive silicone, enhance anti-sticking property, good leveling, and silky hand feeling
L-5614					○		Industry-standard surfactant for the mechanically frothed foam process
L-5617					○		Low VOC surfactant analog of L-5614, used in the mechanically frothed foam processes
L-5639					○		A low VOC mechanical froth surfactant, non-hydrolysable, provides high closed cell content while reducing both froth density and shear induced-cell collapse
L-5690					○		Co-surfactant that enhances froth stability and reduce foam density when used with standard mechanical froth surfactants
L-5641					○		Low VOC surfactant for increased closed cell content and decreased density (< 300 kg/m³)

HFO = Hydrofluoro Olefin

## NIAX AMINE & SPECIALTY CATALYSTS

Catalysts	Product Description							Pot Life	Curing Speed	Hydrolytic Stability
	Microcellular/Shoe Sole	SRIM/Composite	Elastomers	Spray Elastomer	Integral Skin Foam	PU Leather/Coatings	Binder			
<b>A-440</b>	●	●		●				2	2	4
<b>A-533</b>	●	●	●	●	●	●		1	4	4
<b>A-535</b>		●	●			●		3	3	4
<b>A-575</b>	●	●	●	●				3	2	4
<b>A-577</b>		●	●	●				3	2	4
<b>LC-5636</b>		●	●		●			4	1	2
<b>MC-710</b>	●	●	●	●	●			1	4	3
<b>MC-810</b>	●	●	●	●	●			1	3	2
<b>LC-2901</b>						●		3	2	4

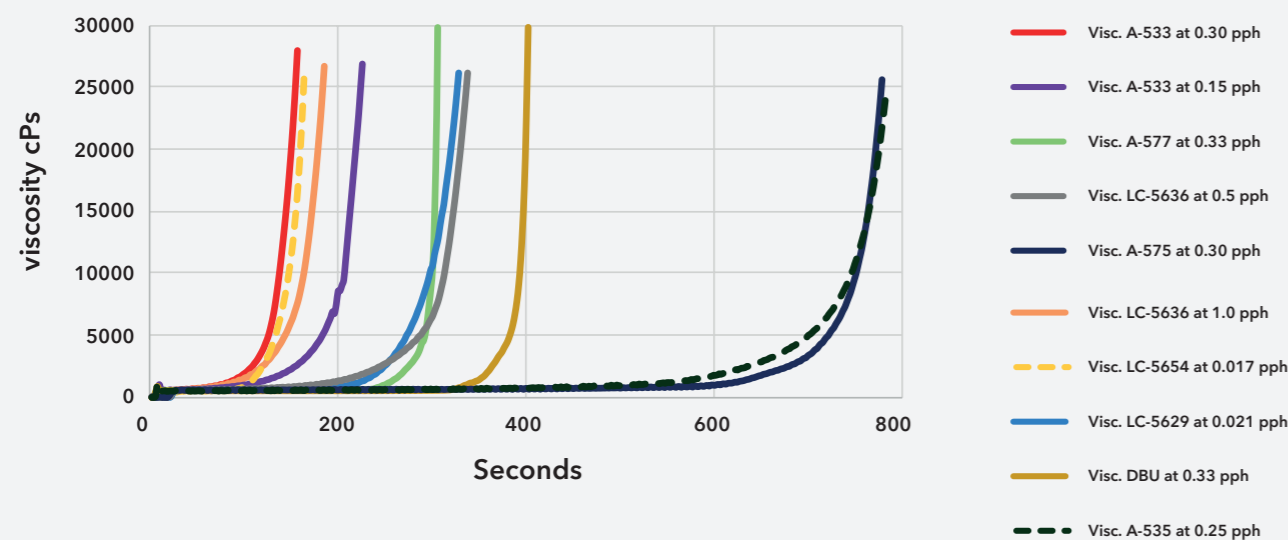
4 = more ; 1 = less

## NIAX METAL CATALYSTS BASED ON SN

Catalysts	Product Description					Pot Life	Curing Speed	Hydrolytic Stability
	SRIM/Composite	Elastomers	PU Leather/Coatings	One Shot/Sprayed Elastomers	Aliphatic Reaction			
<b>LC-5601</b>	●	●	●	●		1	3	4
<b>LC-5604</b>	●	●	●	●		1	4	1
<b>LC-5606</b>	●	●	●	●		2	2	3
<b>LC-5611</b>	●	●	●	●		1	2	2
<b>LC-5622</b>	●	●	●			1	4	3
<b>LC-5628</b>	●	●	●	●	●	1	4	1
<b>LC-5629</b>	●	●	●			2	3	2
<b>LC-5632</b>	●	●	●			1	4	3
<b>LC-5638</b>	●	●	●	●		1	4	2
<b>LC-5650</b>	●	●	●	●	●	1	4	2
<b>LC-5654</b>	●	●	●			2	3	2
<b>LC-5659</b>	●	●	●	●		1	4	2

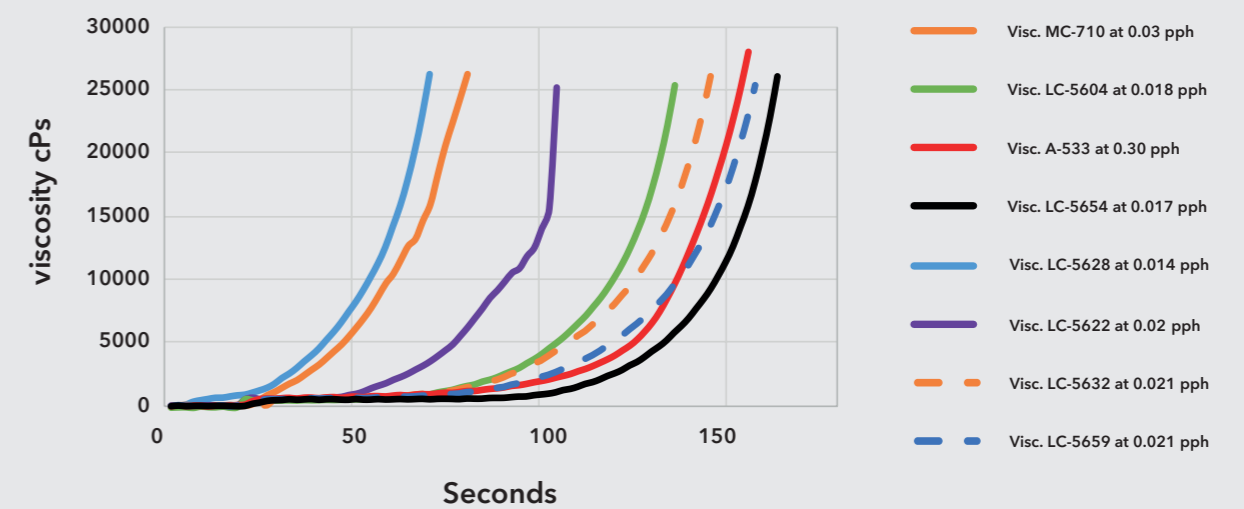
HFO = Hydrofluoro Olefin

4 = more ; 1 = less



Polyether Elastomer Formulation		
Arcol 11-34	pbw	94
Ethylene Glycol	pbw	6
Catalyst	pbw	Varied
Isonate 143L		Index 103

In order to describe the relative behavior, catalysts have been tested in the Polyether based Elastomer formulation shown on the left. Viscosities of reacting mix are determined via Brookfield viscometer (RT cure) coupled with DasyLab software. All chemicals are maintained at 20 °C prior to mixing.



## CUSTOMER SERVICE CENTERS

### AMERICAS

+1 800 295 2392 Toll free\*  
+704 805 6946 Direct number  
\*All American countries

### LATIN AMERICA

#### BRAZIL

+55 11 4534 9650 Direct number

#### MEXICO

+52 55 2169 7670 Direct number

### EMEA- EUROPE, MIDDLE EAST, AFRICA & INDIA

#### EUROPE

+39 0875 758888 Direct number

#### INDIA, MIDDLE EAST & AFRICA

+91 44 71212207 Direct number\*

\*All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka.

### ASIA PACIFIC

#### CHINA

800 820 0202 Toll free  
+86 21 3860 4892 Direct number

#### JAPAN

Sales-JP.Silicones@momentive.com

#### KOREA

+82 2 6201 4600 Direct number

### SOUTH EAST ASIA, AUSTRALIA & NEW ZEALAND

+60 3 9206 1543 Direct number\*

\*South East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region).

#### DISCLAIMER:

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY "SUPPLIER"), ARE SOLD SUBJECT TO SUPPLIER'S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER'S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier's materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier's products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier's standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

Momentive and the Momentive logo are registered trademarks of Momentive Performance Materials Inc.

The use of the "™" symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc. or its affiliated companies.

Copyright 2024 Momentive Performance Materials Inc. All rights reserved.