

EMEA | EUROPE, MIDDLE EAST, AFRICA & INDIA

POLYURETHANE ADDITIVES GUIDE

RIGID & MOLDED FOAMS,
SPECIALTY APPLICATIONS



ALWAYS ONE
STEP AHEAD



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A LEADER IN POLYURETHANE ADDITIVES

Momentive Performance Materials 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



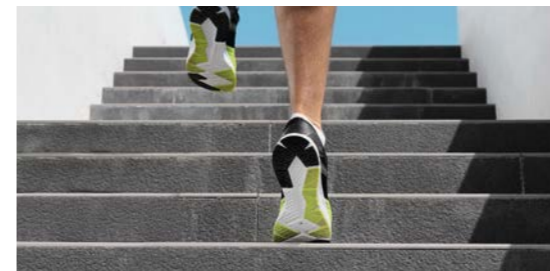
SILICONES FOR MOLDED FOAMS

Automotive seating
Head rest
NVH applications



SILICONES FOR RIGID FOAMS

Appliances
Panels
Discontinuous applications
Spray
One Component Foam



SILICONES FOR SPECIALTY APPLICATIONS

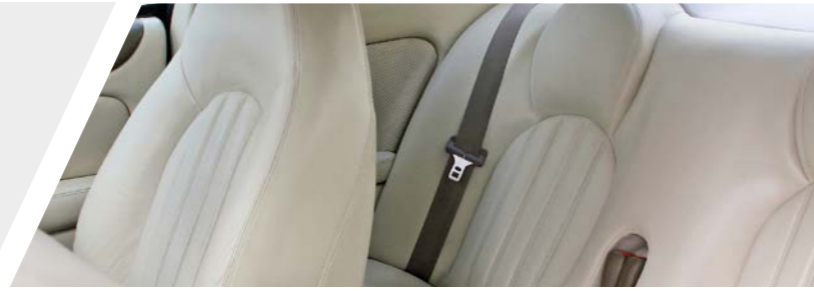
Shoe soling
Automotive parts
Cushioning
Mechanical froth
CASE



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			○		Low-emission silicone with high cell-opening
L-3416		○	○		Low-emission silicone with medium cell-opening
L-3417		○	○		Low-emission; stabilizing silicone
L-3640	○	○			High-efficiency, low-emission silicone for TDI/MDI technology
L-3556S	○				Low-emission, medium-potency, water-soluble silicone
L-3558	○	○			Low-emission, medium/high-potency silicone for TDI
L-3555	○				High-stability, low-emission 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-3629J	○	○			Low fogging, high-efficiency surfactant for TM20 and TDI technology
L-3001		○	○		High cell-opening silicone
L-3002		○	○		Medium cell-opening silicone, low freezing point
L-3222		○	○		Medium-potency, high-efficient cell-opening
L-2171	○	○	○		High-efficiency; balanced silicone
L-3627			○		Low fogging surfactant, medium cell-opening for MDI rich technology

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
Low-emission Catalysts				
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
EF-708	○	○		Balanced catalyst; predominantly blow
A-337		○	○	Surface-curing catalyst; low mold temperature (MDI & MDI/TDI)
A-338		○		Tertiary amine catalyst that can help to improve skin cure at low mold temperatures
Niax Catalysts				
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-33R			○	Key gel catalyst



NIAX RIGID FOAMS

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

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

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





SILICONES FOR CONTINUOUS APPLICATIONS

Silicones	Fine Cells	Pentane Solubility In Polyols	Blowing Agents Emulsification	Cell Stabilization	Foam Flow	Void Reduction	Product Description
L-6620	●●●●	●●	●●●	●●	●●●	●●●	For HFO and pentane, good flow and dimensional stability
L-6633	●●●	●●●	●●●	●●●	●●●	●●●	Reduced foam voids formation in continuous and discontinuous applications
L-6645	●●	●●	●●	●●	●●●	●●●●	Excellent silicone properties offering a reduction in foam voids
L-6646	●●	●●	●●	●●	●●●	●●●●	High-purity, premium-grade silicone to reduce voids contributing to outstanding surface quality in metal faced panels
L-6642	●●●	●●	●●	●●	●●●●	●●●	Balanced stabilizer with good voids control and flow for both continuous and discontinuous processes, suitable for all blowing agents included formic acid and HFOs
L-5210	●●●●	●●	●●●●	●●●	●●●	●●	High-purity surfactant, excellent candidate for maximizing the nucleation step, helping to reduce the cells size in the final foam
L-5111	●●●●	●	●●●	●	●●●	●●	For boardstock fine cells with pentane blowing agents - for PIR/PUR boardstock lamination
L-5112	●●●●	●●	●●●●	●●	●●●	●●●	For boardstock, offers improved mixing quality and emulsification of pentane up to high usage level. Typically improves foam quality and reduces laydown defects
L-5164	●●●●	●●	●●●	●●●	●●●	●●●	High-purity surfactant for boardstock, fine cells, wide latitude, and broad compatibility with all polyester polyols and pentanes
L-5158	●●●	●	●●●	●●	●●●●	●●●●	For PIR boardstock, offers better processing and edge stability, can help reduce surface defects and emulsion viscosity
Y-16541	●●●●	●●	●●●	●●●	●●●	●●●●	High-purity surfactant for boardstock and block foams, showing strong nucleation and stabilization, can reduce surface voids and deliver excellent surface quality with aluminum facings

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



SILICONES FOR ONE COMPONENT FOAMS

Silicones	Yield	Dimensional Stability	Structure	Flow	Solubility	Product Description
L-5345	●●●●	●●●	●●●	●●●	●●●	Excellent candidate for fine cells and good dimensional stability performance. Can provide excellent performance in summer/winter formulations with high levels of fillers
L-5348	●●●●	●●●	●●●	●●●	●●●	High froth volume, good compatibilization, and excellent storage stability
L-5350	●●	●●	●●●	●●	●●	Multipurpose stabilizer mainly for straw foam applications
L-5351	●●●●	●●●	●●●	●●●	●●●	Improved miscibility of components, smooth flow, fine cells, and good dimensional stability. Recommended for high-yield foams, winter grades and formulations, including chloroparaffin
L-5360	●●	●●	●●●	●●	●●	Balanced properties in a variety of formulation types also when high levels of fillers are used
Y-16371	●●●●	●●	●●●●	●●●●	●●●	Excellent performances in winter conditions and premium foams. Easy flow and low expansion rate
Y-16450	●●●●	●●●●	●●●	●●●●	●●●	Improved dimensional stability at low density, well balanced, easy flow and pop-corn like froth
L-5388	●●●●	●●	●●●	●●●●	●●	Excellent for low-density foams, also open cells spray and packaging. Wide compatibility with polyethers and polyesters, strong foam stabilization
L-6164				●●●●		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	Fine Cells	Blowing Agents Emulsification	Cell Stabilisation	Foam Flow	Void Reduction	Product Description
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
L-6265	●●	●●●	●●●	●●	●●	For roofing applications, efficient compatibilizer delivering good leveling, smooth surface, and improved dimensional stability, can be used with hydrocarbons, mainly panels, or HFO
L-6112	●●	●●	●●●	●●●	●●●●	High-purity silicone, can be used with hydrocarbons or HFO, produces 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

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 ³
L-6188	●●	●●	●	Open-cells systems, polyesters or polyether-based, foam density > 30 kg/m ³
L-6189	●●●●	●●●	●●●	Excellent for low-density foams, 10-15 kg/m ³ , 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

Features: Strong = ●●●●, Moderate = ●

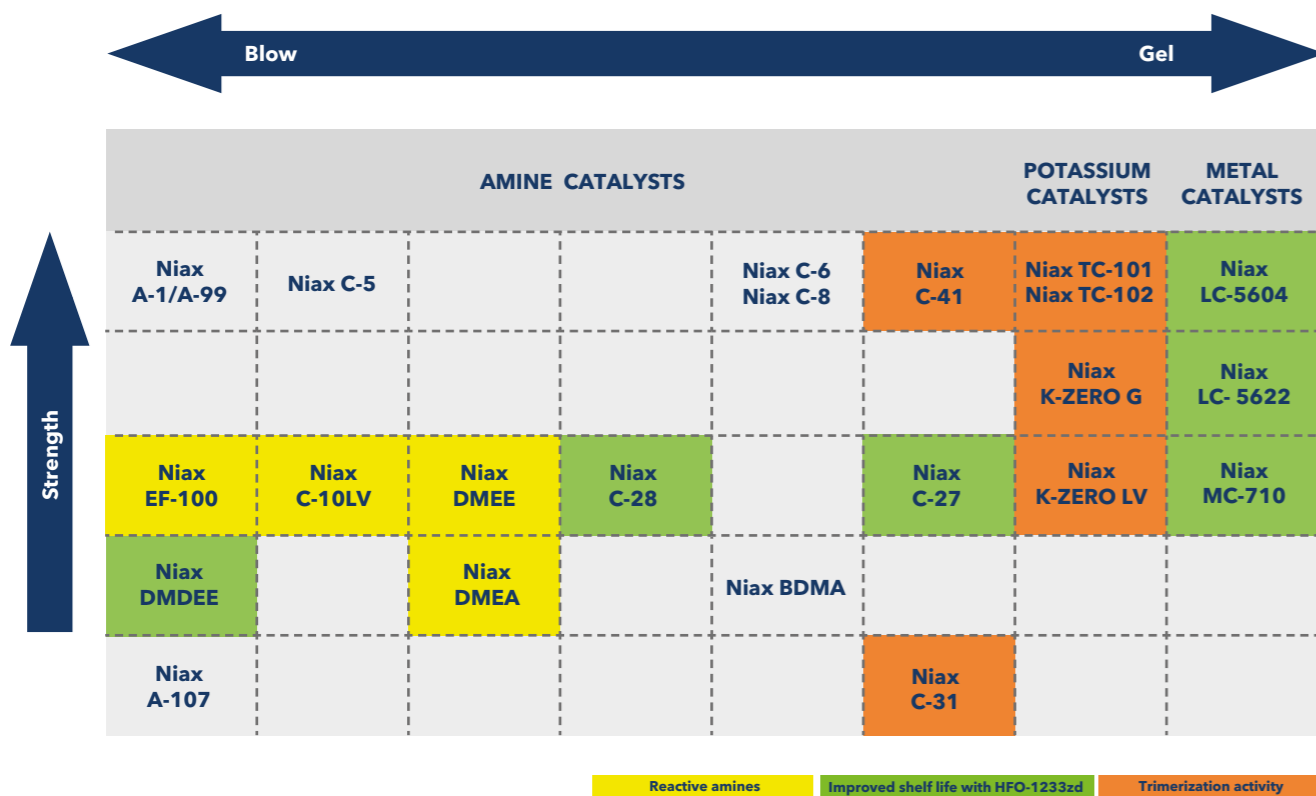
Catalysts	PUR Discontinuous	PUR Continuous Lamination & Block	PIR Continuous Lamination & Block	Water Blown PUR	Packaging, Open Cells Foam	Product Description
A-1	●	●	●	●	●	Very effective blowing catalyst, promote selectively water-NCO reactions, can improve foam flow and rate of expansion
C-5	●	●	●			General-purpose blowing catalyst
EF-100	●	●	●	●	●	Reactive blow catalyst, excellent candidate for applications where low odor is a relevant feature
C-6		●	●			Efficient gel catalyst for a variety of PU applications
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
PM-40		●	●			Blowing catalyst based on A-1, moderate odor and viscosity and may be used with direct metering
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
PM-20 PLUS		●	●	●	●	Blow-gel catalyst for direct in line metering in the continuous lamination of PUR or for PIR in combination with a potassium catalyst
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
C-520		●	●			Formulated blowing catalyst for a safer and more accurate handling
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
	Niax Special Additives						
RA-1		●	●		●		Can speed up foam hardening and adhesion without influencing gel time, in particular for PIR foam made with aromatic polyester polyols
AP-01	●	●	●		●		Adhesion promoter additive, can reduce surface friability in high water and/or high index formulations
FRP Polyols	●	●	●	●	●	●	Halogen free additives to help improve fire properties in both PUR or PIR foams
NA-01			●				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
Potassium Octoate LV	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
Potassium Octoate	5000-7000	Potassium-based trimerisation catalyst, 15% K, also used as curing additive in PUR formulations for lamination
K-ZERO G	3000	Glycol-free potassium octoate, reduced MDI use and improved cell isotropy in the production of PIR panels
K-ZERO LV	600	Glycol-free potassium octoate, reduced MDI use, low viscosity to facilitate in-line metering
Potassium Acetate	120	15% K containing PIR catalyst
TC-101	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
TC-102	180	Trimerisation catalyst based on a non-reprotoxic salt, increased efficiency versus standard octoates, smoother rise profile. 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

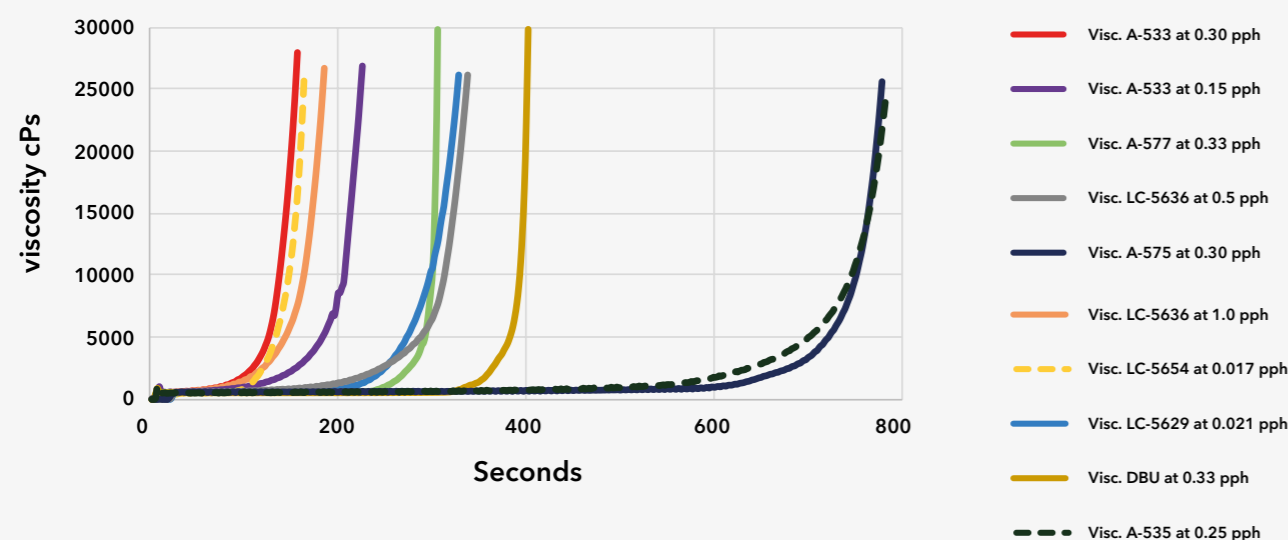
Catalysts	Product Description							Pot Life	Curing Speed	Hydrolytic Stability
	Microcellular/Shoe Sole	SRIM/Composite	Elastomers	Spray Elastomer	Integral Skin Foam	PU Leather/Coatings	Binder			
A-440	●	●		●				2	2	4
A-533	●	●	●	●	●	●		1	4	4
A-525	●	●	●	●	●	●		1	4	4
A-534	●	●	●	●	●			3	2	4
A-535		●	●			●		3	3	4
A-575	●	●	●	●				3	2	4
A-577		●	●	●				3	2	4
LC-5636		●	●			●		4	1	2
MC-710	●	●		●	●	●		1	4	3
LC-2901							●	3	2	4

4 = more ; 1 = less

NIAX METAL CATALYSTS BASED ON SN

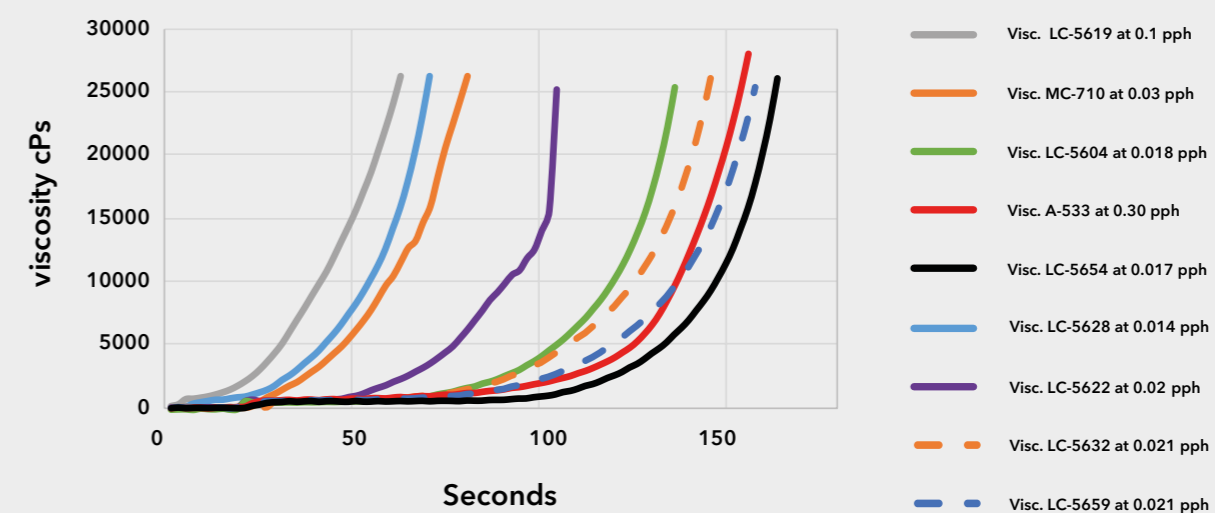
Catalysts	Product Description					Pot Life	Curing Speed	Hydrolytic Stability
	SRIM/Composite	Elastomers	PU Leather/Coatings	One Shot/Sprayed Elastomers	Aliphatic Reaction			
LC-5604	●	●	●	●		1	4	1
LC-5622	●	●	●			1	4	3
LC-5628	●	●	●	●	●	1	4	1
LC-5629	●	●	●			2	3	2
LC-5632	●	●	●			1	4	3
LC-5638	●	●	●	●		1	4	2
LC-5650	●	●	●	●	●	1	4	2
LC-5654	●	●	●			2	3	2
LC-5659	●	●	●	●		1	4	2
LC-5619	●	●	●		●	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.



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