

FOR IMMEDIATE RELEASE:

EXTRUDING GROWTH IN HCR SILICONE:

SHIN-ETSU SILICONES LAUNCHES VERSATILE SIL-X-SHIN™ EXTRUSION SERIES FOR TUBING APPLICATIONS.

Akron, OH—April 2017

Shin-Etsu Silicones of America, Inc. (SESA: A U.S. subsidiary of Shin-Etsu Chemical Co. Ltd., Japan) has recently announced the launch of their newest HCR (High Consistency Rubber) product line – **Sil-X-Shin™ Silicone Elastomers**. The platinum, addition-cure series includes two distinct HCR extrusion versions: *Methyl-Vinyl* and *Phenyl Silicone* specifically engineered for extruded tubing and profiles, and designed for use in Healthcare, Beverage, and Architectural Glazing applications.



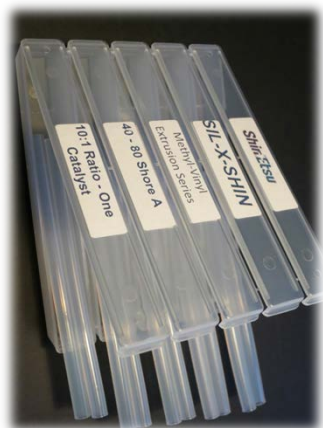
Both series are available in a wide range of Shore A Hardness—from 40–80, and come in a convenient 10:1 ratio of base compound to catalyst which provides more overall mixing confidence. The unique advantage of having one universal catalyst that can be used with each base provides the ultimate benefit of flexibility. This also translates into reduced working capital and material logistics costs of stocking multiple products.

According to Steve Craig, SESA’s National Business Manager / HTV & LIMS Group, “We have intentionally engineered the formulations to have a longer working time between milling and extrusion. This increases material scheduling flexibility, as the product can actually be staged for nearly twenty-four hours during the processing gap.”

Kendall Kozinski, HTV TS&D Supervisor for SESA adds, “Having processed every product in the series on production-scale equipment, I observed that the materials mill very easily and do not require a long time to freshen prior to adding catalyst. We’ve also processed successfully in both horizontal and vertical extrusion equipment.”

Sil-X-Shin’s Methyl-Vinyl Extrusion grade series represents a second generation, optimized line of products that feature unique translucence and clarity. Notably, extruded tubing exhibits no bubble formation while curing in the oven, and it produces a smooth surface finish.

METHYL-VINYL EXTRUSION SERIES



	SV-44030U	SV-45030U	SV-46030U	SV-47030U	SV-48030U
NO POST-CURE					
Specific Gravity	1.089	1.105	1.13	1.58	1.194
Hardness Shore A	45	52	59	69	77
Tensile	1077	1009	1285	1297	1503
Elongation	495	398	423	350	334
Tear, Die B	89	103	115	125	119
POST-CURED 2 HOURS @ 177°C					
Specific Gravity	1.093	1.112	1.136	1.163	1.199
Hardness Shore A	50	56	64	72	81
Tensile	1077	1230	1344	1361	1389
Elongation	392	397	359	298	260
Tear, Die B	88	114	118	118	106

Note: All bases are catalyzed 10:1 with CAT-40002 catalyst compound



Sil-X-Shin’s Phenyl Silicone extrusion grade series is even more unique, having more specific applications as it works exceptionally well in temperatures lower than -40° C—with a -60° C minimum for optimal usage. Notably, this benefit provides better resistance to gamma sterilization and is ideally suited for applications such as pharmaceutical process tubing requiring low temperature resistance.

PHENYL EXTRUSION SERIES



	SP-54030U	SP-55030U	SP-56030U	SP-57030U	SP-58030U
POST-CURED 4 HOURS @ 200°C					
Specific Gravity	1.155	1.161	1.165	1.117	1.201
Hardness Shore A	40	50	60	70	80
Tensile	1340	1250	1100	1000	830
Modulus 100%	230	270	300	430	330
Elongation	610	550	490	430	330
Tear, Die B	280	230	175	125	119
Compression Set	12	12	11	11	11

Note: All bases are catalyzed 10:1 with CAT-40002 catalyst compound

Conclusion:

Specifically engineered for extrusion, both series’ platinum, addition-cure chemistries produce a tight surface finish with few residual by-products. When properly cured, the finished products will resist taking a set which can alter the dimensions of an extruded article. Additionally, both products are biocompatible and are currently being tested for USP Class VI compliance.

Sil-X-Shin Silicone Elastomers are manufactured in ISO 9001 facilities at SESA’s USA headquarters in Akron, Ohio and are available for sale and sample in 1,100 lb. kits.

For more detailed information on Sil-X-Shin™ Silicone Elastomers email:
sil-x-shin@shinetsusilicones.com

Or, visit the Shin-Etsu Silicones web site at:
www.shinetsusilicones.com



CORPORATE PROFILE:

A U.S. subsidiary of Shin-Etsu Chemical Co. Ltd., Japan, Shin-Etsu Silicones of America Inc. offers vast technical and capital resources to formulate solutions as a major supplier of silicone materials to North America's medical, automotive, electronics, aerospace, cosmetics, and manufacturing industries. Shin-Etsu’s premium silicone compounds incorporate leading-edge technology, staff expertise, and value-added service; offering customers the highest levels of quality and consistency in specialty silicone materials.

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