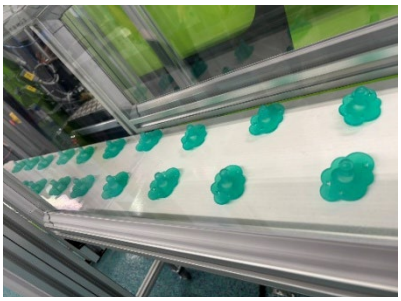
Shin-Etsu Silicones



ADVANCING LIMS™ TECHNICAL CENTER PARTNER COMMUNITY AND EDUCATION:

SHIN-ETSU SILICONES HOSTS OPEN HOUSE & IMMERSIVE TRAINING MODULES FEATURING LSR PRODUCTION LEADERS, PROCESSING PARNTERS, CUSTOMERS & PROFESSIONALS.

Akron, OH−October 2026

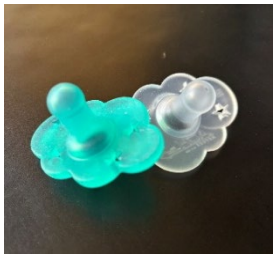
Shin-Etsu Silicones of America (SESA: A U.S. subsidiary of Shin-Etsu Chemical Co. Ltd., Japan) recently hosted a collective LIMS™ Technical Center Open House and tandem LIMS Processing Training Courses at their 7,000 ft² state-of-the-art LIMS Technical Center (LTC) at 1120 Tower Drive Akron, OH (Thursday September 17th and September 22-24 respectively). The goal of the immersive cooperative was to provide advanced education and insights on the latest processing and property advantages of liquid silicone rubber (LSR) for key industry customers, leading supplier partners, and ascending professionals.

Both comprehensive events featured three complete liquid injection molding cells that showcased integrated state-of-the-art equipment from leading manufacturers in the LSR industry. Whereas the Open House was a one-day event, the Processing Courses covered a total of three days with shifting groups spending a day-and-a-half between the LTC and offsite technical classroom courses. A total of 24 industry experts with over 500 years cumulative LSR experience educated the LTC groups–covering all integrated LSR components for a half-day on each cell's processing platforms including:

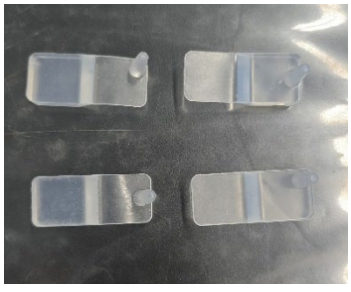
Cell A: Application: 4-cavity magnifying lens

Press: Arburg 470A Allrounder 110 ton
Pump: Elmet Top 700, small footprint 20-liter system
Mold: M.R. Mold 4-cavity
Robot: Yushin YCII-250
SESA Material: LIMS X-34-1972-3 is an optically clear silicone utilized to mold the entire magnifying glass including two key surfaces–the textured, embossed handle and bezel, and the diamond polished lens.

Cell B: Application: 4-cavity baby nipple pacifier



Press: Engel e-mac 110 ton
Pump: Nexus ServoMix X200
Mold: ACH Solution SERVOSHOT 2G valve-gate system
Robot: Engel Viper 12 4-Axis
SESA Material: KG-2003H-50 is a two component, low volatile silicone that features less than 0.5% low molecular weight siloxane content without post-cure and is well-suited for baby care applications.



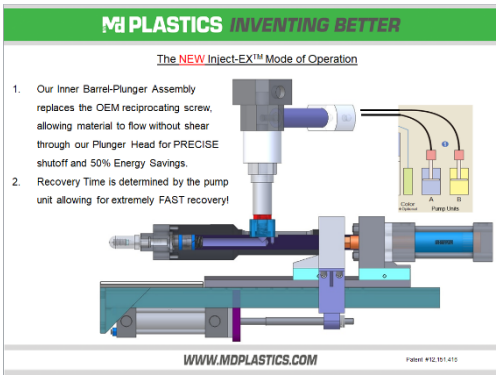
Cell C: Application: Customized test/training mold

Press: Sumitomo All-electric DEMAG-SE130EV-S 130-ton injection press
Pump: Binks LSR eTwin Connect
Mold: Kipe Modular
SESA Material: KEG-2000-40 fast cure type and hard tear strength silicone that is supplied as two components which are mixed in a 1:1 ratio to ensure easy and accurate blending.

SESA / LIMS PROCESSING TRAINING COURSE:

Comprehensive courses were taught over three days by industry experts and covered a myriad of LSR classroom technical presentations including the following core topics:
Fundamentals of Silicone / Dosing Systems / Injection Molding Machines / Tooling / Processing / Loading Material Common Molding Defects & Troubleshooting / Basic Setup Parameters / LSR Preventative Maintenance

SESA / LTC / NEW LSR TECHNOLGY PARTNERS:



In an effort to embrace new technologies, SESA invited two new partner companies to showcase their innovative products during the LTC events–both designed to address key LSR production/processing issues including:

Md Plastics, Inc. (Columbiana, OH) presented their groundbreaking Inject-EX™ Plasticating Unit Conversion assembly for processing both low viscosity thermoplastics and thermoset LSR materials. Its compact design can be retrofitted onto existing presses by just turning off the screw motor, and all other process settings are the same. Notably, it features a revolutionary stationary screw platform that eliminates the design deficiencies of traditional reciprocating screw technology.

According to Md Plastics President, Michael Durina, "What we did was basically eliminate the screw drive with our patented internal Automatic Shutoff Plunger Head. The result is a volume displacement that is better than anything on the market today. The shot consistency is improved and the shear is significantly reduced. By eliminating the screw and screw drive motor it advances the material downstream–which saves upwards of 50% in energy/operating costs."

APSX (Blue Ash, OH) premiered their APSX-LSR Desktop Injection Machine. The preassembled compact design is ideal for lab scale and small part LSR prototyping. It gives you an actual injection-molded part in one day for much more cost-efficient production. The ultra-compact design (4ft by 2f footprint) boasts stainless steel construction and features a specialized LSR barrel with an integrated cooling system.

According to APSX Owner Rick Cevic, "Notably, the all-in-one APSX-LSR design boasts a dual cartridge system that enables the fastest material changeover in the industry–under 5 minutes through simple cartridge replacement. The average cycle time is between 60 secs to 90 secs depending on the material and part characteristics."

Press: APSX-LSR Desktop Silicone Injection Machine / Pump: APSX Cartridge System / Mold: APSX Custom Mold
SESA Material: KEG-2000-40

SESA / LTC OPEN HOUSE-TRAINING COURSE / CONCLUSION:

According to North America Marketing Manager, Eric Bishop, "The focus of pairing our LTC Open House and Processing Training Course modules was to facilitate networking and education between customers, up-and-coming professionals, and industry leaders spanning the silicone and injection molding sector. Attendees experienced 'real-world' molding demonstrations using state-of-the-art equipment, as well as our latest world class LIMS materials—all manufactured in SESA's 35,000 ft² plant in Akron, OH. All participants at the LTC Open House and associated course platforms were able to immerse themselves in a myriad of today's vital processing solutions."

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For more detailed product information, 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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