

## *What is LSR and What is So Great About It?*

LSR (Liquid silicone molding) is often used for medical technologies and is one of Robin's manufacturing specialties. Many LSR materials are biocompatible, and some grades have been approved specifically for implants. Devices made from LSR are temperature stable (in heat or cold), and can withstand exposure to harsh cleaning and disinfecting chemicals. Further, LSR resists discoloration from UV exposure, is scratch resistant, and retains a cosmetic attractiveness throughout the product's lifecycle.

The attraction to molding with LSR as compared to a transfer or compression process using high consistency rubber (HCR) silicone is the speed in which the LSR material cures. Parts can be fully cured in seconds rather than in minutes as with gum material

LSR has a low viscosity that can be molded into components with thin walls or small features. Once cured, the material is very flexible, so it can be molded into shapes with undercuts that might otherwise be trapped in the mold form. Draft is not necessary for extracting parts out of the mold cavity.

Further, LSRs come in an array of durometers available at 5 to 90 durometer, that can be mixed to match any color. It can also be made optically clear for use in light covers and lenses, and it is second only to glass in light transmission.

LSR is also ideal for overmolding, in which a substrate is inserted into the overmold cavity. LSR is then injected into the cavity, creating a second layer of material. Some grades of LSR materials will bond to specific substrates, thus eliminating a necessary prepping operation on other overmolding processes. The combination of biocompatibility; resistance to heat, cold, chemicals and UV light; durability; design flexibility; and moldability make LSR a serious contender for any application requiring a silicone elastomer. To learn more about LSR and our molding capabilities contact your Robin Industries sales rep.



### wise words

“The only sustainable competitive advantage is your people.”

—Barry Shamis

## *Looking Back*

### It Happened in 1992...

- MTV introduced The Real World reality TV show.
- Prince Charles and Princess Diana of Wales divorce.
- Bill Clinton is elected the 42nd president.
- Lawrence Welk passes away.
- Badminton becomes an official Olympic sport.
- The first nicotine patch is introduced to help people quit smoking.
- DNA fingerprinting is invented.
- AT&T releases a video telephone for \$1,499.
- The Mall of America, the largest shopping mall in the U.S., is constructed in Minnesota, spanning 78 acres.
- The North American Free Trade Agreement (NAFTA) is signed between the U.S., Canada, and Mexico.
- Johnny Carson retires from The Tonight Show after 30 years.
- Rodney King's beating by police officers in L.A. is caught on video, leading to several days of rioting.

## { terrific trivia }



1. For the last 150 years, Brazil has been the largest exporter of what product?
2. In which city was the Titanic built?
3. What was the former name of New York City?
4. What is the lightest existing metal?
5. What is the most-fractured human bone?

5. Caviar  
4. Aluminum  
3. New Amsterdam  
2. Belfast  
1. Coffee

## { top 10 list }



### Top 10 Popular Theme Parks

- |                               |        |
|-------------------------------|--------|
| 1. Magic Kingdom              | USA    |
| 2. Disneyland                 | USA    |
| 3. Tokyo Disneyland           | Japan  |
| 4. Tokyo Disneysea            | Japan  |
| 5. Disneyland Park            | France |
| 6. Epcot                      | USA    |
| 7. Disney's Animal Kingdom    | USA    |
| 8. Disney's Hollywood Studios | USA    |
| 9. Universal Studios Japan    | Japan  |
| 10. Islands of Adventure      | USA    |

## Did You Know?

- Leo Fender, inventor of the Stratocaster and Telecaster electric guitars, couldn't play the guitar.
- Termites eat wood twice as fast when listening to heavy-metal music.
- A man named Matthew McGrory has the record for largest feet. He wears size 28 1/2 shoes.
- The average person walks more than 115,000 miles in a lifetime, the equivalent of walking around the entire earth four times.

## Walking Picks Up Speed for Exercise and Transportation



As life grows ever more challenging, with concerns about health and the future nagging at us, one solution can be as simple as taking a walk.

That's the reassuring news from U.S. Surgeon General Dr. Vivek H. Murthy, who last year declared "physical activity is one of the best things Americans can do to improve their health and walking is an easy way to get moving" in his landmark Call to Action to Promote Walking and Walkable Communities.

Murthy explained why he focuses on walking among many other forms of physical activity:

- It is already Americans' favorite form of aerobic exercise.
- It is free.
- It does not require special skills, facilities or equipment.
- It can be done year-round, outdoors or indoors.
- People with disabilities can "walk" by rolling in wheelchairs.
- For busy people, a walk can often do double duty as transportation or social time with friends.

Millions of Americans are now discovering that walking is good for our health, our social lives, our communities, our economic prospects and our overall happiness.

Here are some of the recent signs:

1. A miracle drug. A September cover story on "The Exercise Cure" in Time magazine cited brisk walking, and even walking the dog, as the sort of "moderate intensity" workout that "works like a miracle drug".
2. Feel better — and better about yourself. Communities good for walking enjoy lower obesity, lower diabetes, and more people who feel good about their appearance, according to new data from the Gallup Healthways Well-Being Index.
3. Movement toward stopping climate change. America's transportation system has emerged as Climate Enemy #1, with cars, trucks and other vehicles now representing the nation's largest source of carbon pollution.

## Upcoming Events

*See you at the shows!*

### MD&M West at Anaheim Convention Center

February 6 - 8, 2018 • Booth # 2039  
800 W. Katella Avenue | Anaheim, CA 92802  
[www.mdmwest.com](http://www.mdmwest.com)



### MD&M East at Jacob K. Javits Convention Center

June 12 -14, 2018 • Booth #1915  
655 West 34th Street | New York, NY 10001  
[www.mdmeast.com](http://www.mdmeast.com)



### Design2Part at John S. Knight Center

October 24 & 25, 2018 • Booth #TBD  
77 E. Mill Street | Akron, OH 44308  
[www.d2p.com](http://www.d2p.com)



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