



# ORION INDUSTRIES

APPLICATOR OF FUNCTIONAL COATINGS SINCE 1963

## FluoroBond® LSR Friction Reducing Technology for Silicone Rubber

### Low Friction & Flexible Replacement for Parylene

FluoroBond LSR is a translucent matte coating designed to reduce the coefficient of friction (COF) and, hence, the friction force of molded silicone elastomers. The ability of the FluoroBond LSR coating system to reduce the surface friction of elastomeric silicone parts enables LIM® (liquid silicone rubber), HCR, and RTV materials to be utilized in areas that were previously closed to silicones due to their high inherent COF.

### Key Features

- Low friction (.31)
- Chemical bond
- Thin film (.0005" - .001")
- Elastomeric
- Excellent elongation
- Reduces surface dust pick up
- VOC (Volatile Organic Compound) free
- Biocompatible (USP class VI requirements)
- Can be tinted by using silicone compatible pigments

### Disadvantages of Parylene & Silicone Lubricants

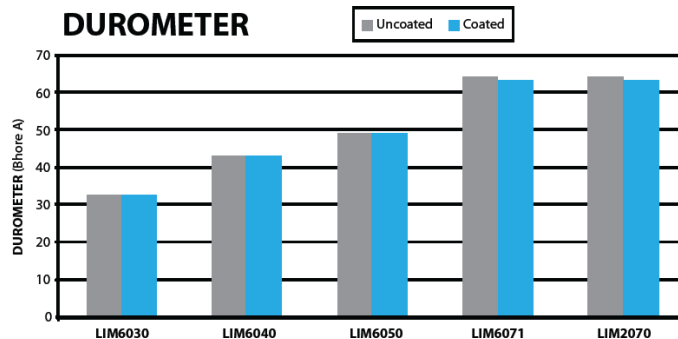
#### Parylene:

- A rigid coating that cracks on flexible silicone (physical bond)
- Requires time consuming and expensive vapor deposition process
- No anti-microbial properties

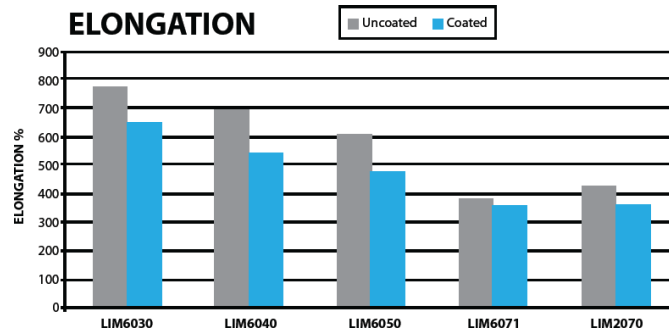
#### Silicone Lubricants:

- If not applied correctly, the lubricant can migrate
- Extra step in the manufacturing process
- Contaminate other areas of manufacturing facility
- Extremely expensive
- No anti-microbial properties

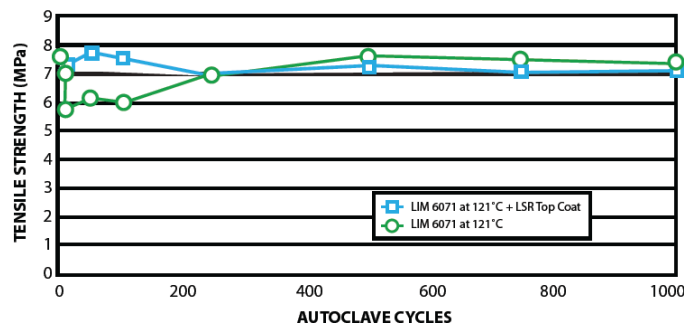
### DUROMETER



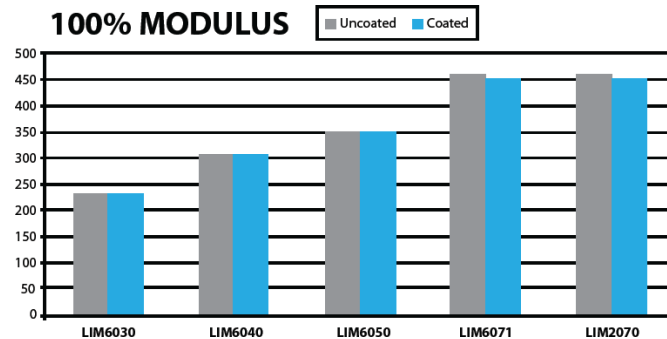
### ELONGATION



### AUTOCLAVE RESISTANCE



### 100% MODULUS



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