Low Friction & Flexible Replacement for Parylene

Slick Sil™ LSR is a translucent matte coating designed to reduce the coefficient of friction (COF) and, hence, the friction force of molded and extruded silicone elastomers. The ability of the Slick Sil™ 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) vs. raw silicone (.65)
- 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
- Anti-microbial properties (optional)

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 cost and step in the manufacturing process
- Contaminate other areas of manufacturing facility
- Extremely expensive
- No anti-microbial properties