

Liquid Silicone Rubber (LSR) is a type of synthetic rubber that is characterized by its liquid form prior to curing. It is a two-part system consisting of a liquid base (typically a gum) and a catalyst. LSR offers excellent temperature resistance, flexibility, and biocompatibility, making it suitable for various applications, including medical devices, automotive components, baby products, and electrical connectors.

Chemical Description

Description	Value
Material Type	Synthetic Rubber
Chemical Name	LSP Liquid Silicone Rubber
Additives	Unfilled
Color	Black
UV Resistant	Yes

Physical Properties

Property	Maximum Unless Range is Specified
Density,lbs/in3	0.0390-0.0426
Maximum Service Temp,°F	536
Electrical Resistivity,ohm-cm	1.0E+14-1.0E+16
Dielectric Strength,kV/in	584

Mechanical Properties

Property	Maximum Unless Range is Specified
Tensile Strength,ksi	0.435-1.45
Elongation at Break	300-800%
Hardness Shore A	15-75
Resilience	45-65
Tear Strength,pli	85.6-257
Compression Set	10-60%

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.