

Technical Data Sheet

PR5504

Medium Consistency Silicone Valve & O-ring Lubricant

FEATURES

- Highly water repellent
- High dielectric strength
- Low volatility
- Good thermal oxidation and chemical stability
- Retains its grease like consistency from -55°C (-67°F) to 200°C (392°F)
- Odorless
- Adheres readily to dry metals, ceramics, rubber, plastics and insulating resins

COMPOSITION

- Silicone fluids
- Silica filler

APPLICATIONS

- A moisture proof seal for aircraft, automotive and marine ignition systems and spark plug connections
- Disconnection junctions in electrical wiring systems, electrical assemblies and terminals.
- Used as a seal and lubricant for:
 - Cable connectors
 - Battery terminals
 - Rubber door seals
 - Switches
 - Rubber and plastic O-rings
 - Various metal-on-plastic and metal-on-rubber combinations

CERTIFICATION

- FDA title 21 CFR175.357 Lubricants for Incidental Food Contact

PR5504 Medium Consistency Silicone Valve & O-ring Lubricant is a grease-like compound containing an inert silica filler in combination with selected polydimethyl silicone fluids designed to provide superior release characteristics while maintaining the excellent dielectric properties inherent with silicone compounds. Designed as a rubber and plastic lubricant.

TYPICAL PROPERTIES

The values reported on this sheet should not solely be used for preparing specifications on this product. Please contact PremierRepak, Inc. for assistance in preparing a specification.

Property	Test Method	Typical Value
Color	Translucent Paste, Homogeneous	
Specific Gravity	CTM	1.0 g/cm ³
Bleed, (200°C /24hrs)	CTM	4.5%
Evaporation, (200°C /24hrs)	CTM	1.4%
Penetration, unworked	ASTM D 217	200 - 260
Penetration, worked x 60	ASTM D 217	310
Service Temperature Range		-57° to 204°C
Melting Point		None
Electrical Properties		
Dielectric constant, (100 kHz)	ASTM D 150	3.01
(100 HTZ)	ASTM D 150	2.98
Dielectric Strength, 50 Mil Gap	ASTM D 149	>450V/mil
Volume Resistivity, (ohm-cm)	ASTM D 257	1x10 ¹⁵
Arc Resistance, seconds	CTM	130
Dissipation Factor (100kHz)	ASTM D 150	<0.0002
(100 HTZ)		0.0001

CTM: Corporate Test Method, copies of CTMs are available on request.

LIMITATIONS

Should not be applied to any surface to be painted or finished. Coatings may not adhere to the silicone-treated surfaces. This product is not tested, nor approved for medical or pharmaceutical uses.

PACKAGING

PR5504 is available in 150g tubes; 400g grease cartridges; 3.6kg pails and 18.1kg pails.

Special packaging and private labeling is available upon request.