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| | | Silicone |
| Chemical Name | | Polysilozane |
| Material Designation | | FC, FE, GE |
| ASTM D-735, SAE J-14 & MIL-R-3065 | | TA |
| ASTM D-1418 Designation | | Psi, PVS <i>i</i> , Si, V <i>s</i> <i>i</i> |
| Tensile Strength (psi) | Pure Gum | Below 1200 |
| | Black Loaded Stocks | Over 1200 |
| Hardness Range (Durometer A) | | 20-85 |
| Specific Gravity (Base Material) | | 1.14-2.05 |
| Adhesion to Metals | | Excellent |
| Adhesion to Fabrics | | Excellent |
| Tear Resistance | | Poor |
| Abrasion Resistance | | Poor |
| Compression Set | | Very Good |
| Resilience | Cold | Excellent |
| | Hot | Excellent |
| Dielectric Strength | | Good |
| Electrical Insulation | | Excellent |
| Impermeability to Gases | | Fair |
| Acid Resistance | Dilute | Excellent |
| | Concentrated | Fair |
| Solvent Resistance | Aliphatic Hydrocarbons | Poor |
| | Aromatic Hydrocarbons | Poor |
| | Oxygenated (Ketones, etc.) | Poor |
| | Lacquer Solvents | Poor |
| Resistance To: | Swelling in Lubricating Oil | Fair |
| | Oil and Gasoline | Fair |
| | Animal Oils | Fair |
| | Water Absorption | Excellent |
| | Oxidation | Excellent |
| | Ozone | Excellent |
| | Sunlight Aging | Excellent |
| | Heat Aging | Ourstanding |
| | Low Temperature | Ourstanding |
| | Flame | Fair |
| | Vegetable Oils | Good |
| | Chlorinated Hydrocarbons | Poor to Good |