Technical Specifications for Torr-Seal
Catalog Number 30022

**Absorption:** 0.30% (water, 24-hour immersion)

**Acid Resistance:** Withstands SF₆ at 25°C

**Adhesion:** Will not adhere to Teflon, Kel-F, nylon, polypropylene

**Carcinogens:** Does not contain any of the carcinogens listed in the OSHA Standards of November 29, 1975.

**Color:** Off-White

**Combustion:** (Gasses emitted at normal temperatures) - NOₓ, CO₂, H₂O, CO

**Compressive Strength:** 10,000 psi ± 20% (at 25°C)

**Corrosive Properties:** Corrosive to copper when uncured; non-corrosive when cured

**Cure Time:** 24 hours at 25°C, 2 hours at 60°C

**Dielectric Constant:** 6.1 (at 25°C, 1 kHz)

**Dielectric Strength:** 350 volts/mil

**Dissipation Factor:** 0.09 (at 25°C, 1 kHz)

**Expansion, linear:** 30.3 x 10⁻⁶ in./in./°C at (30°C to 90°C)

**Flash Point:** 175°C

**Flexural Strength:** 11,000 psi ± 20%

**Fungus Resistance:** Very high

**Hardening Time:** 1 to 2 hours at 25°C, 30 minutes at 60°C

**Hardness:** 75-80 Shore D

**Heat of Reaction:** Very slightly exothermic

**Pot Life:** 55 minutes (100 grams at 25°C)

**Resistivity, Volume:** 3.52 x 10¹⁴ ohm/cm (at 25°C)

**Shear Strength, Tensile:** (on an aluminum lap joint) -
- at 25°C, following 7 days at -45°C, 2150 psi
- at 25°C, following 7 days at 25°C, 2000 psi
- at 25°C, following 7 days at 80°C, 1900 psi
- at 80°C, 800 psi
- 100% relative humidity, long-term, 1900 psi
- immersed in alcohol, 0.5 hour, 1600 psi
- after 24-hour room temperature cure, 800 psi

**Shelf Life:** 12 months minimum from date of shipment

**Shrinkage, linear:** 0.00125 in./in. (At 25°C)

**Specific Gravity:** 1.6

**Temperature:** -45°C to 120°C; cracks at liquid nitrogen temperature

**Tensile Strength:** 5000 psi ± 30%

**Thermal Conductivity:** 10.4 x 10⁻⁴ cal/sec/cm²/°C/cm