VERMANITE PURE®

VPT1938

THERMAL APPLICATION INNOVATION

ENGINEERED FOR SEMICONDUCTOR APPLICATIONS

VERMANITE PURE® VPT1938* is a next-generation high-performance FFKM elastomer engineered for the most demanding thermal processes in semiconductor and high-purity manufacturing.

This advanced black FFKM compound delivers exceptional mechanical strength, long-term sealing stability, and consistent performance under extreme temperature exposure.

With a continuous service capability of up to 300 °C, VPT1938 ensures superior durability and dimensional integrity where process reliability and material resilience are critical.

KEY ADVANTAGES

- **Outstanding Thermal Endurance:** Maintains sealing integrity during prolonged exposure to 300 °C environments.
- **Exceptional Chemical Resistance:** Stable against aggressive process gases, solvents, and thermal environments common in semiconductor applications.
- **Superior Mechanical Strength:** High modulus and tensile strength provide robust performance under dynamic load and vacuum cycling.
- **Low Compression Set:** Retains elasticity and sealing force even after long-term high-temperature aging.

MATERIAL CHARACTERISTICS

Property	Standard	Typ. Value
Colour	–	Black
Hardness (Shore A)	ISO 7619-1	74
[illegible]	ISO 37	9.9
Tensile Strength (MPa)	ISO 37	18.3
Elongation at Break (%)	ISO 37	149
Compression Set (%) — 70 hr at 204 °C	ISO 815-1	13

*Not recommended for use in aqueous environment

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