TECHNICAL DATASHEET:
EXTREME HIGH-TEMPERATURE GRADE SILICONE SHEETING
Solid Silicone Sheet — 55 & 60 Durometer

PRODUCT DESCRIPTION

Extreme High-Temperature Grade Silicone Sheeting is a solid silicone elastomer formulated with advanced heat stabilizer technology to exceed the thermal performance of standard general-purpose silicone, with an operating range of -85°F to +600°F (intermittent). Available in 55 and 60 Shore A durometer grades, the material delivers high tensile strength, elongation, and tear resistance that are maintained after extended heat aging (>750 psi tensile, >90% elongation, >70 ppi tear after 168 hrs at 300°C). It is easily die-cut and available in thicknesses from .010" to .500" and widths up to 60", with various color and catalyst options.

TYPICAL APPLICATIONS

- High-temperature industrial seals and gaskets
- Aerospace and aviation thermal barrier components
- Exhaust system sealing and insulation
- Electrical insulation in elevated-temperature environments
- Die-cut gasketing for heat-critical assemblies

PRODUCT FEATURES & BENEFITS

- Extreme high & low temperature resistance: -85°F to +600°F (intermittent)
- Superior sealing and gasketing performance
- Fabricated with high-quality certified raw materials
- UV and ozone resistant; excellent electrical insulator
- Non-toxic and chemically inert (cured)
- Retained mechanical properties after 168 hrs at 300°C: >750 psi tensile, >90% elongation, >70 ppi tear
- Available in multiple colors and catalyst options

Property	Test Method	60 Duro (ESS60HT)	55 Duro (ESS55HT)
Specific Gravity, g/cc	ASTM D297	1.27	1.25
Durometer, Shore "A"	ASTM D2240	60 ±5	55 ±5
Tensile Strength, psi	ASTM D412	1200	1050
Elongation, %	ASTM D412	450	450
Tear, ppi Die "B"	ASTM D624	140	130

Specifications are believed to be accurate at the time of publication and are subject to change without notice. It is the responsibility of the end-user to test and determine suitability of this material for a particular application. H-O will provide samples for this purpose at no charge. **REV. 0**