TECHNICAL DATASHEET:
METAL DETECTABLE GRADE SILICONE SHEETING
Solid Silicone Sheet — 40, 50, 60 & 85 Durometer

PRODUCT DESCRIPTION

Metal Detectable Grade Silicone Sheeting is a solid silicone elastomer incorporating magnetic detectability, enabling seal fragments to be quickly identified and sequestered in-process through magnetic collection. Designed for food, beverage, dairy, and pharmaceutical processing environments where contamination prevention is critical, the material provides an additional layer of product safety in regulated production lines. Available in 40, 50, 60, and 85 Shore A durometer grades, it is peroxide free, odorless, tasteless, non-toxic, and chemically inert, with an operating range of -85°F to +525°F (intermittent). Thicknesses from .010" to .500" and widths up to 60" are available in various opaque colors.

TYPICAL APPLICATIONS

- Food and beverage processing seals and gaskets
- Dairy and pharmaceutical equipment sealing
- Contamination-critical die-cut gaskets
- High-temperature food-contact sealing components
- Processing environments requiring magnetic fragment detection

PRODUCT FEATURES & BENEFITS

- Magnetically detectable — fragments recoverable via 20.5 mm diameter magnet (max pull 4 kg)
- Temperature resistance: -85°F to +525°F (intermittent)
- Peroxide free, odorless, and tasteless
- Non-toxic and chemically inert (cured)
- Fabricated with high-quality certified raw materials
- UV and ozone resistant
- Available in various opaque colors
- Easily die-cut; thicknesses .010" to .500", widths up to 60"
- FDA compliant per FDA Title 21 CFR 177.2600

Property	Test Method	ESS40MD	ESS50MD	ESS60MD	ESS85MD
Specific Gravity, g/cc	ASTM D297	1.29	1.31	1.36	1.56
Durometer, Shore "A"	ASTM D2240	40 ±5	50 ±5	60 ±5	85 ±5
Tensile Strength, psi	ASTM D412	1100	1050	1250	1050
Elongation, %	ASTM D412	800	700	800	100
Tear, ppi Die "B"	ASTM D624	130	130	190	100

Detectability

Property	Test Method	Value
Magnet Pull Test	20.5 mm diameter magnet	4 kg maximum pull

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**