

# Smooth-Sil Series

## (Matrix SIL Smooth Series)

### Applications

Smooth-Sil silicones cure at room temperature with negligible shrinkage. With different hardnesses to choose from, the silicones offer tremendous versatility and are suitable for making production moulds of any configuration. These silicones exhibit good chemical, abrasion and heat resistance.

Smooth-Sil silicones are used for rapid prototyping, wax casting (foundries and candle makers), and more. Smooth-Sil 945 is skin safe and certified by an independent laboratory, while Smooth-Sil 950 and Smooth-Sil 960 are suitable for food related applications.

### Properties

- ▶ Negligible shrinkage
- ▶ Skin safe (945)
- ▶ Food safe (950 and 960)

PHYSICAL PROPERTIES			
Properties	Smooth-Sil 945	Smooth-Sil 950	Smooth-Sil 960
Mixed viscosity (ASTM D-2393)	30,000 cps	35,000 cps	30,000 cps
Specific gravity (ASTM D-1475)	1.24	1.24	1.25
Shore A Hardness (ASTM D-2240)	45A	50A	60A
Tensile strength (ASTM D-412)	700 psi	725 psi	650 psi
100% modulus (ASTM D-412)	260 psi	272 psi	280 psi
Elongation at break (%) (ASTM D-412)	320%	320%	270%
Die B tear strength (ASTM D-624)	120 pli	155 pli	110 pli
Colour	Purple	Blue	Green

