



DSP Solid Silicone Fluorosilicone Grade

DSP Fluorosilicone Grade solid silicone is designed to be used in applications where normal silicone would degrade by harsh chemicals or fluids and is used where extreme conditions exist.

Features & Benefits:

- Excellent gasketing material
- Extreme high & low temperature resistance
- UV & ozone resistance
- Resistant to harsh chemicals, fuels, and solvents
- Non-toxic and chemically inert
- Wide range of durometers, thickness and widths

Product Properties

PROPERTY	TEST METHOD	STANDARD DUROMETER			
		40	50	60	70
PHYSICAL					
Specific Gravity, g/cc	ASTM D297	1.45	1.50	1.50	1.50
Durometer, Shore A	ASTM D2240	40 ± 5	50 ± 5	60 ± 5	70 ± 5
Tensile Strength, MPa (psi)	ASTM D412	6.21 (900)	6.21 (900)	6.21 (900)	6.55 (950)
Elongation, %	ASTM D412	300	200	200	175
Tear Strength, kN/m (ppi)	ASTM D624 Die B	14.0 (80)	7.0 (40)	7.0 (40)	14.0 (80)
Operating Temperature Range, °C (°F)		-54 to 260 (-65 to 500)	-54 to 260 (-65 to 500)	-54 to 260 (-65 to 500)	-54 to 260 (-65 to 500)

Product Configuration

PRODUCT DIMENSIONS	STANDARD	AVAILABLE RANGE
Thickness Available mm, inches	See Reverse	0.254 to 25.4 (0.010 to 1.0)
Full Widths Available mm, inches	914 (36)	914 to 1905 (36 to 75)
Roll Lengths m, yards	See Reverse	-
Colors Available	Blue	Red, White, Black, Gray, Brown, Green, Blue
Surface Finish	Matte	Matte, Fabric, Super Fine, Heavy, Smooth
Surface Talc	Talc or Talc-free	-

*Thickness over 12.70 mm (0.5 inches) only available as a molded product.



Standard Thickness, Roll Lengths and Tolerances

THICKNESS mm (inches)			ROLL LENGTH m (yard)
STANDARD	NOMINAL RANGE	TOLERANCE	STANDARD
0.38 (0.015)	0 - 1.0 (0 - 0.039)	± 0.180 (± 0.007)	36.6 (40)
0.81 (0.032)			36.6 (40)
1.57 (0.062)	1.01 - 1.75 (0.04 - 0.069)	± 0.30 (± 0.012)	18.3 (20)
2.36 (0.093)	1.76 - 3.4 (0.07 - 0.134)	± 0.043 (± 0.017)	18.3 (20)
3.18 (0.125)			18.3 (20)
4.75 (0.187)			9.1 (10)
6.35 (0.250)			9.1 (10)
9.53 (0.375)	3.41 - 12.7 (0.135 - 0.500)	± 0.56 (± 0.022)	4.6 (5)
12.70 (0.500)			4.6 (5)

* In the case of laminated products, these tolerances apply only to the individual layers and not the overall thickness of the laminate. Laminate thicknesses are nominal.

Slit Material and Tape (PSA) Width Tolerances

NOMINAL WIDTH mm (inches)	TOLERANCE mm (inches)
0 - 76 (0 - 3)	± 1.60 (± 0.063)
> 76 - 203 (> 3 - 8)	± 2.39 (± 0.094)
> 203 - 305 (> 8 - 12)	± 3.18 (± 0.125)
> 305 - 610 (> 12 - 24)	± 4.76 (± 0.188)
> 610 - 914 (> 24 - 36)	+ 25.4, - 0.0 (+ 1.0, - 0.0)
> 914 (> 36)	+ 25.4, - 0.0 (+ 1.0, - 0.0)

VALUE ADDED OFFERINGS

- Acrylic adhesive (PSA) lamination
- Slit tapes/strippings
- Extra post cures
- Edge trimming
- Custom Colors

Product Specifications

- MIL-DTL-25988

Notes:

- All metric conversions are approximate. Reference US customary units for official values and tolerances.
- Additional technical information and product specifications are available upon request.
- Typical values should not be used for specification limits.