



**Name**     **Soft Grade Silicone**  
**Code**     **Foam NS100**

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**1. DIMENSIONS AND APPEARANCE**

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**Thickness**                             in                     1/16 - 1/2  
**Length**                                 ft                     16 – 65, depending on thickness  
**Width**                                   in                     18  
**Surface finishing**                     Smooth  
**Color**                                    Grey

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**2. PHYSICAL PROPERTIES**

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**Compression deflection (25%)**     psi (kPa)             3-6 (20-40)                     ASTM D1056  
**Density**                                 pcf (kg/m<sup>3</sup>)         22 (350)                         ASTM D1056  
**Compression set (22h, 100°C)**    %                     < 5                                 ASTM D1056  
**Tensile strength**                     psi (kPa)             29 (200)                         ASTM D412  
**Elongation**                             %                     60                                 ASTM D412  
**Flammability**                         -                     V-0 & HF-1 rating             UL-94  
**Low temperature flexibility**       °C (°F)             -55 (-67)                         ASTM D1056  
**Working temperature range**       °C (°F)             -55 to 200 (-67 to 392)

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**3. INDUSTRY STANDARDS**

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**FDA regulation 21 CFR 77.2600**     Rubber articles intended for repeated use  
**UL-94 V-0**                             ≥ 0.8mm thickness

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**4. TOLERANCES**

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<b>TARGET THICKNESS, in (mm)</b>	<b>MINIMUM, mm</b>	<b>MAXIMUM, mm</b>
1/32 (0.8)	0.698	1.181
1/16 (1.6)	1.092	2.108
3/32 (2.4)	1.892	2.908
1/8 (3.2)	2.565	3.835
3/16 (4.8)	4.165	5.435
1/4 (6.4)	5.638	7.162
3/8 (9.5)	8.357	10.643
1/2 (12.7)	11.430	13.970

**Length tolerance**                     +free / -0  
**Width tolerance**                     +free / -0

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