

Name **Extra Soft Grade Silicone Foam**
 Code **NS201**

1. DIMENSIONS AND APPEARANCE

Thickness	in	1/16 - 1/2
Length	ft	25---50
Width,	in	19—36
Surface finishing	in	Smooth
Color		Black,

2. PHYSICAL PROPERTIES

Compression deflection (25%)	psi (kPa)	1.5-4.5 (10-30)	ASTM D1056
Density	pcf (kg/m ³)	14.4 (230)	ASTM D1056
Compression set (22h, 100°C)	%	<5	ASTM D1056
Tensile strength	psi (kPa)	>29 (200)	ASTM D412
Elongation	%	>50	ASTM D412
Water absorption	%	<5	ASTM D1056
Flame resistance	-	V-0	UL-94
Toxic gas generation	-	Pass	SMP 800-C
Low temperature flexibility	°C (°F)	-55 (-67)	ASTM D1056
Thermal Conductivity	W/(m·K)	0.06	ASTM D5470
Volume resistivity	Ohm-cm	≥1.0*10 ¹³	ASTM D257
Dielectric strength	kV/mm	≥3.0	ASTM D149

3. INDUSTRY STANDARDS

UL-94 V-0	Flammability of plastic materials for vertical burn
ASTM D1056-14	Grade 2D1
RoHS compliance	EU Directive 2015/863
REACH SVHC compliance	Updated to November, 2022

4. TOLERANCES

TARGET THICKNESS, in (mm)	MINIMUM, mm	MAXIMUM, mm	Length tolerance +free / -0 Width tolerance +free / -0
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	