

Name **Medium Grade Silicone Foam**  
 Code **NS121**

### 1. DIMENSIONS AND APPEARANCE

Thickness	in	1/32 - 1/2
Length	ft	25---50
Width,	in	19—36
Surface finishing	in	Smooth
Color		Grey, Black,

### 2. PHYSICAL PROPERTIES

Compression deflection (25%)	psi (kPa)	10.1 (69.6)	ASTM D1056
Density	pcf (kg/m <sup>3</sup> )	20.4 (326.8)	ASTM D1056
Compression set (22h, 100°C)	%	<5	ASTM D1056
Tensile strength	psi (kPa)	>44 (300)	ASTM D412
Elongation	%	>60	ASTM D412
Water absorption	%	<5	ASTM D1056
Flame resistance	-	V-0	UL-94
Flame spread Index (Is)	-	<25	ASTM E162
Smoke density (Ds) w/t or w/o flaming	-	<100 1.5 min <200 4.0 min <300 Max Dm	ASTM E662
Toxic gas generation	-	Pass	SMP 800-C
Working temperature range	°C (°F)	-55 to 200 (-67 to 392)	Internal
Low temperature flexibility	°C (°F)	-55 (-67)	ASTM D1056
Thermal Conductivity	W/(m·K)	0.07	ASTM D5470
Volume resistivity	Ohm-cm	≥1.0*10 <sup>14</sup>	ASTM D257
Dielectric strength	kV/mm	6.0	ASTM D149

### 3. INDUSTRY STANDARDS

FDA regulation 21 CFR 177.2600	Rubber articles intended for repeated use
UL-94 V-0	Flammability of plastic materials for vertical burn
ASTM D1056-14	Grade 2D3
SAE AMS3195	For medium silicone sponge
RoHS compliance	EU Directive 2015/863
REACH SVHC compliance	Updated to November, 2022
Ingress Protection code IPX8	IEC 60529

