

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 ³)	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 ¹⁴	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

GCP Elastomeric Inc. cannot foresee all circumstances under which this information and our products in conjunction with other manufactures products may be used. Physical properties are typical values obtained from sample testing at Akron laboratories or GCP Approved Supplier™ laboratories. Actual production values may vary. It is the users' responsibility to ensure the products are appropriate for their application. We accept no responsibility for results obtained by the application of the information or the safety and suitability of our products, either alone or in combination with other products. If you have any questions in this regard please contact our technical director George Qu (george@gcpindustrial.com).

4. TOLERANCES

TARGET THICKNESS, in (mm)	MINIMUM, mm	MAXIMUM, mm
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