



RCS 870 Silicone Foam Specifications

<u>Specifications</u>	<u>Test Standard</u>	<u>Value</u>
Physical items		
Color	Per Request	Black, Grey, Brick Red, White
Thickness (Inches)		0.063" - 0.500"
Width		19.5" & 36"
Density (lb/cft)		15 +/-2
Compression Set (%)	ASTM D1056 Test D	<5% (100°C)
Compression Force Deflection (psi)	Force measured @ 25% Deflection ASTM D 1056	4.35
Tensile Strength (psi)	ASTM D412	43.5
Elongation Rate (%)	ASTM D412	>90
Fire Resistance		
Fire Resistance	UL94	V-0 & HF-1
Fire Spread Index	ASTM E162	<35
Smoke Density	ASTM E662	<100 (1.5 Min) / <2000 (4 Min)
Toxic Gas Emission Rating	SMC-800	PASS
Environment Specifications		
Water Absorption	Internal Test 24 hours	<5%
IP67 (Application)		
FDA CFR772600 part C for food usage		Black, Grey
Electrical and Thermal Conductivity		
Dielectric Constant	ASTM 150	1.039
Insulation Strength	ASTM D149, Vplts/mil	55.88
Dry Arc Resistance	ASTM D495, Seconds	127
Volume Resistivity (ohm-in)	ASTM D257	3.94 x 10 ¹⁴
Thermal Conductivity (BTU in/hr/ft ² /°F)	ASTM C518	0.416
Temperature Resistance		
Flexing at -55°C	ASTM D1056	PASS
Working Temperature	SAE J2236	-55 to +200°C
Intermittent Temperature	Internal Test	250°C

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