

Flame Retardant Silicone Sponge

COHrlastic R104000 M is a flame retardant closed cell sponge recognized to UL 94 V-0 requirements. This product is available in seven different thicknesses and delivers medium firmness, making it suitable for a wide range of gasketing applications. The material is flexible and compressible with excellent weatherability and non-stick properties. In addition, R10400 M is post-cured to minimize volatiles for a clean gasketing application.



HCR Chemistry

R10400 M utilizes the high consistency silicone rubber (HCR) chemistry. This provides superior mechanical strength properties such as improved tear strength, abrasion resistance and tensile strength over other silicone rubber systems. Through the HCR process, R10400 M maintains a very uniform closed cell structure ensuring enhanced sealing properties. This specialty formulation is also designed for use in extreme temperature applications (-100° F to 500° F) allowing the specifying engineer a wide latitude.

Pressure Sensitive Adhesive

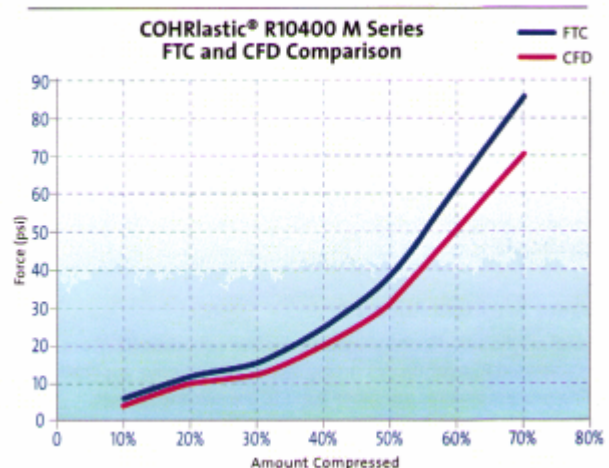
Optional acrylic and silicone pressure sensitive adhesives (PSA) are available. The factory-applied PSA eliminates messy secondary adhesive application. The proprietary priming process ensures adequate bond to the silicone sponge.

Product Configuration

Thickness in. (mm)	Sheets 36" x 36" (91 x 91mm)	Yard Goods 36" x 5 yards (91.4mm x 4.6M)
.063 (1.59)	•	•
.094 (2.38)	•	•
.125 (3.18)	•	•
.188 (4.76)	•	•
.25 (6.35)	•	
.375 (9.53)	•	
.500 (12.7)	•	

COHrlastic® is a registered trademark.

Compression Module



Flame Retardant Silicone Sponge (continued)

Typical Physical Properties

Property	Units	Test Method	Typical Value Proposed
Physical			
Color	—	Visual	Blue/Gray
Compression Deflection	psi (kPa)	ASTM D1056	10 (69)
Elongation	%	ASTM D412	250
Tensile Strength	psi (kPa)	ASTM D412	100 (690)
Compression Set	%	ASTM D1056	10
Tear Strength	ppi (kN/m)	ASTM D624	20 (3.5)
Density	lbs./ ft. ³ (kg/m ³)	ASTM D3574	35 (560)
Environmental			
Water Absorption	%	ASTM D471	1%
Operating Temperature	°F (C)	internal	-100° to 500° (-73° to 260°)
FDA Extractable (Food Contact)		21 CFR 177.2600	PASS
Flammability			
Flame Rating		UL 94	V-0
Flame Spread Index	L ₅	ASTM E162	Class B
Smoke Density	D ₅	ASTM E662	Pass
Toxic Gas Emissions rating		SMP-800C	Pass
Euro Fire Protection (Rail)		DIN5510-2	Pass
Electrical & Thermal Properties			
Dielectric Constant		ASTM D150	1.78
Dielectric Strength	Volts per mil	ASTM D149	200
Volume Resistivity	Ohm-cm	ASTM D257	8 ¹⁵
Thermal Conductivity	BTUin/hr/ft ² (w/m k)	ASTM C177	0.14 (.02)

*** All properties are typical values and should not be used for writing specifications.

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