

HT820 Flame Retardant Silicone Sponge Sheet

This silicone sponge sheeting is flame retardant but does not comply with EN-45545 regulations. HT-820 is more durable than the other silicone sponges in the BISCO® range, with a higher tear resistance and tensile strength. However, this doesn't affect its compression set making it suitable for high closure force gaskets. This compound is resistant to ultraviolet light, ozone and extreme temperatures. This rubber sheeting is available with pressure sensitive adhesive backing. Polymax also provide a fabrication service to create gaskets or strips - please call us for more information.

Approvals

GENERAL MOTORS GMW16392 Type 3, UL94 V-0 HF-1, AMS 3196, ASTM E 162, ASTM E 662 and SMP-800C.

Operating temperature range: -55°C to 200°C

Physical Property	Test Method	Units	Typical Values
Elongation at Break	ASTM D412	%	55
Tensile Strength	ASTM D412	MPa	0.345
Compression Set ASTM D 1056 Test D @ 70°C		%	<1
Flame Resistance	UL 94		Listed V-0 and HF-1
Flame Spread Index	ASTM E162	Ls	<25
Smoke Density @ 4 Minutes	ASTM E 662	Ds	<50
Toxic Gas Emissions Rating	SMP-800C		Pass
Water Absorption	Internal: 24hrs @ room temp	%	0.8
UV Resistance	SAE J - 1960		No Degradation
Ozone Effect Rating	ASTM D 1171		No Cracks
Corrosion Resistance	AMS - 3568		Pass
Dielectric Constant	ASTM D 150		1.5
Dialectric Strenght	ASTM D 149	Volts/mil	93
Dry Arc Resistance	ASTMD 485	Seconds	96
Volume Resistivity	ASTM D 257	Ohm-cm	10 ¹⁴
Thermal Conductivity	ASTM C 518	w/m°K	0.11

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