

BISCO® Flame Retardant Silicone Sponge Datasheet

Product Code: RC02101-FR

HT-800 Technical Specification

Properties	Test Method	Values
Grade	-	HT-800
Density	Internal	300 - 473 kg/m ³
Compression Force Deflection	ASTM D1056	41 - 97 kPa
Compression Set (50% 22hr @ 100°C)	ASTM D1056	< 10%
Water Absorption (24hr 2" below water surface)	Internal	< 5%
Flammability Properties		
Flame Resistance	UL 94 (File E83967)	V-0 ; HF-1
Flame Spread Index (Is)	ASTM E162	Flaming Mode < 35
Smoke Density (Ds)	ASTM E662	Flaming Mode, 1.5 min, < 100 Flaming Mode, 4.0 min, < 200
Burn Length	FMVSS 302	< 100 mm/min
Thermal Properties		
Operating Temperature Range	Internal	-55°C to +200°C
Thermal Conductivity	ASTM D518	0.076 W/m °K
Low Temperature Flex (5hr @ -55°C)	ASTM D1056	Pass
Low Temperature Brittleness (3min @ -55°C)	ASTM D746	Pass



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HT-820 Technical Specification

Properties	Test Method	Values
Grade	-	HT-820
Density	Internal	336 - 528 kg/m ³
Compression Force Deflection	ASTM D1056	82 - 138 kPa
Compression Set (50% 22hr @ 100°C)	ASTM D1056	< 10%
Water Absorption (24hr 2" below water surface)	Internal	< 5%
Flammability Properties		
Flame Resistance	UL 94 (File E83967)	V-0 ; HF-1
Flame Spread Index (Is)	ASTM E162	Flaming Mode < 35
Smoke Density (Ds)	ASTM E662	Flaming Mode, 1.5 min, < 100 Flaming Mode, 4.0 min, < 200
Burn Length	FMVSS 302	< 100 mm/min
Thermal Properties		
Operating Temperature Range	Internal	-55°C to +200°C
Thermal Conductivity	ASTM D518	0.09 W/m °K
Low Temperature Flex (5hr @ -55°C)	ASTM D1056	Pass
Low Temperature Brittleness (3min @ -55°C)	ASTM D746	Pass



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HT-840 Technical Specification

Properties	Test Method	Values
Grade	-	HT-840
Density	Internal	369 - 553 kg/m ³
Compression Force Deflection	ASTM D1056	110 - 179 kPa
Compression Set (50% 22hr @ 100°C)	ASTM D1056	< 5%
Water Absorption (24hr 2" below water surface)	Internal	-
Flammability Properties		
Flame Resistance	UL 94 (File E83967)	V-0 ; HF-1
Flame Spread Index (Is)	ASTM E162	Flaming Mode < 35
Smoke Density (Ds)	ASTM E662	Flaming Mode, 1.5 min, < 100 Flaming Mode, 4.0 min, < 200
Burn Length	FMVSS 302	< 100 mm/min
Thermal Properties		
Operating Temperature Range	Internal	-55°C to +200°C
Thermal Conductivity	ASTM D518	0.09 W/m °K
Low Temperature Flex (5hr @ -55°C)	ASTM D1056	Pass
Low Temperature Brittleness (3min @ -55°C)	ASTM D746	Pass



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HT-870 Technical Specification

Properties	Test Method	Values
Grade	-	HT-870
Density	Internal	215 - 327 kg/m ³
Compression Force Deflection	ASTM D1056	7 - 48 kPa
Compression Set (50% 22hr @ 100°C)	ASTM D1056	< 10%
Water Absorption (24hr 2" below water surface)	Internal	< 10%
Flammability Properties		
Flame Resistance	UL 94 (File E83967)	V-0 ; HF-1
Flame Spread Index (Is)	ASTM E162	Flaming Mode < 35
Smoke Density (Ds)	ASTM E662	Flaming Mode, 1.5 min, < 100 Flaming Mode, 4.0 min, < 200
Burn Length	FMVSS 302	< 100 mm/min
Thermal Properties		
Operating Temperature Range	Internal	-55°C to +200°C
Thermal Conductivity	ASTM D518	0.06 W/m °K
Low Temperature Flex (5hr @ -55°C)	ASTM D1056	Pass
Low Temperature Brittleness (3min @ -55°C)	ASTM D746	Pass



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BF-1000 Technical Specification

Properties	Test Method	Values
Grade	-	BF-1000
Density	Internal	156 - 316 kg/m ³
Tensile Strength	ASTM D412	> 140 kPa
Elongation at Break	ASTM D412	> 60%
Compression Force Deflection	ASTM D1056	7 - 35 kPa
Compression Set (50% 22hr @ 100°C)	ASTM D1056	< 5%
Water Absorption (24hr 2" below water surface)	Internal	< 10%
Flammability Properties		
Flame Resistance	UL 94 (File E83967)	V-0 ; HF-1
Flame Spread Index (Is)	ASTM E162	Flaming Mode < 35
Smoke Density (Ds)	ASTM E662	Flaming Mode, 1.5 min, < 100 Flaming Mode, 4.0 min, < 200
Burn Length	FMVSS 302	< 100 mm/min
Thermal Properties		
Operating Temperature Range	Internal	-55°C to +200°C
Thermal Conductivity	ASTM D518	0.048 W/m °K
Low Temperature Flex (5hr @ -55°C)	ASTM D1056	Pass
Low Temperature Brittleness (3min @ -55°C)	ASTM D746	Pass



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BF-2000 Technical Specification

Properties	Test Method	Values
Grade	-	BF-2000
Density	Internal	160 - 240 kg/m ³
Compression Force Deflection	ASTM D1056	0 - 17 kPa
Compression Set (50% 22hr @ 100°C)	ASTM D1056	< 12%
Water Absorption (24hr 2" below water surface)	Internal	-
Flammability Properties		
Flame Resistance	UL 94 (File E83967)	V-0 ; HF-1
Flame Spread Index (Is)	ASTM E162	Flaming Mode < 35
Smoke Density (Ds)	ASTM E662	Flaming Mode, 1.5 min, < 100 Flaming Mode, 4.0 min, < 200
Burn Length	FMVSS 302	< 100 mm/min
Thermal Properties		
Operating Temperature Range	Internal	-55°C to +200°C
Thermal Conductivity	ASTM D518	0.048 W/m °K
Low Temperature Flex (5hr @ -55°C)	ASTM D1056	Pass
Low Temperature Brittleness (3min @ -55°C)	ASTM D746	Pass



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