HANNA RUBBER COMPANY

Specification Sheet

F-20 Silicone Foam

Physical Property	Test Method	Value
Continuous Length (Yards)		up to 36"(914)(Wide)
Tensile Strength (PSI)(kPa)	ASTM D412	30(207)
Elongation at Break (%)	ASTM D412	45
Density (lb.ft ^{3})(kg/m^3)	ASTM D3574	20(320)
Compression Set (%)	ASTM D1056	<5
Compression Deflection (PSI)(kPa)	ASTM D1056	10(70)
Colors		Gray, black
Surface Description	Visual	Textured One Side
Thickness/ Tolerance (inch)(mm)	1.6±0.4	0.0625±0.016
	3.2±0.8	0.125±0.031
	4.8±0.8	0.188±0.032
	6.4±0.8	0.250±0.031
	9.5±1.2	0.375±0.047
	12.7±1.3	0.500±0.050
Flammability		
Flame Resistance (UL)	UL 94 V-0	Pass
Flame Resistance (FAR)	FAR 25.853 (12s & 60s)	Pass
Flame SpreadmIndex (L1)	ASTM E162	<15
Smoke Density (D2)	ASTM E662	1.5 minutes<20, 4.0 minutes<50
Toxic Gas Emissions Rating	SMP-800C	Pass
Flame Propagation	ASTM C1166	Pass
Environmental		
Stain Resistance	ASTM D925-06e2, Method A	Pass
Ozone Effect Rating	ASTM D1171-99 (2007), Method A	No Cracking
UV Resistance (visual)	SAE J1960	No Degradation
Water Absorption (%)	ASTM D471/ D1056	<1
Temperature Range (°C)(°F)	-	-51 to 204(-60 to +400)
FDA Extractables	21 CFR 177.2600 (food contact)	Pass
Gasket and Seals for Electronic Enclosures	UL 50 E	Pass
Electrical and Thermal		
Dielectric Strength - volts/ mil (VPM)	ASTM D149	80
Dielectric Constant	ASTM D150	3.5
Dissipative Factor	ASTM D150	0.03
Dry Arc Resistance (seconds)	ASTM D495	127
Volume Resistivity (ohms-cm)	ASTM D257	3.39 x 10 14
Thermal Conductivity (W/m°K)	ASTM C518	0.074
Thermal Insulation (R-Value)(ft.^{2} x h x °F/ Btu x in)	ASTM C518	1.94
Low Temperature Embrittlement (°C)(°F)	DMA	-100 (-148)

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