

IPOTEC

Innovation in Polymer Technology

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SF Expanded Cellular Silicone Rubber Sheet – Physical Properties

Property		Typical Value			Test Method
		Soft SF10	Medium-Soft SF25	Medium-Firm SS40	
Density	lbs/cu.ft (g/cc)	22-26 (0.35-0.4)	30-43 (0.55-0.7)	40-55 (0.65-0.9)	ASTM D1056
Compression-Deflection, 25%	psi (kPa)	2-7 (14-48)	6-14 (42-96)	12-20 (82-138)	ASTM D1056
Tensile Strength	psi (kPa)	80 (550)	130 (900)	150 (1030)	ASTM D412
Elongation	%	350	310	200	ASTM D412
Compression Set, 22h / 212F(100C) / 50%	%	40	40	40	ASTM D1056
Brittleness Temperature	°F (°C)	-110 (-80)	-110 (-80)	-110 (-80)	ASTM D746
Thermal Conductivity (K)	BTUin/hrft ² °F (W/m ² K)	0.60 (0.11)	0.75 (0.14)	0.90 (0.17)	

Thickness Tolerances (AMS 3195)

Sheet Thickness, inch (mm)

Tolerance, inch (mm)

Up to 0.063 (1.60)

Over 0.063 to 0.188 (1.60 – 4.78)

Over 0.188 to 0.313 (4.78 – 7.95)

Over 0.313 to 0.500 (7.95 – 12.70)

+0.030 (0.76) / -0.016 (0.41)

+/- 0.030 (0.76)

+0.050 (1.27) / -0.030 (0.76)

+/- 0.060 (1.52)

Unless specifically stated data relates to general-purpose materials. Some properties of special grades may differ. Information provided in this data sheet is indicative and is given in good faith but without warranty, express or implied. Whilst test results are deemed to be reliable, performance of these products is dependent on conditions of use and it is the responsibility of the user to determine suitability for a particular application.