

IPOTEC

Innovation in Polymer Technology

Ipotec LLC, 41 Industrial Drive, Exeter, NH 03833, USA
Tel: (+1) (603) 778 2882 • Fax: (+1) (603) 778 2878 • <http://www.ipotec.com> • e-mail: info@ipotec.com

SS Expanded Cellular Silicone Rubber Sheet – Physical Properties

Property		Typical Value			Test Method
		Soft SS10	Medium-Soft SS20	Medium-Firm SS30	
Density	lbs/cu.ft (g/cc)	9-19 (0.15-0.3)	15-25 (0.25-0.4)	25-32 (0.4-0.5)	ASTM D1056
Compression-Deflection, 25%	psi (kPa)	2-5 (14-34)	5-9 (34-63)	9-13 (63-91)	ASTM D1056
Tensile Strength	psi (kPa)	80 (550)	110 (760)	190 (1320)	ASTM D412
Elongation	%	350	190	165	ASTM D412
Water Absorption	%	3	3	1	ASTM D1056
Compression Set, 22h / 212F(100C) / 50%	%	7	5	3	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)	0.35 (0.06)	0.50 (0.09)	0.60 (0.11)	

Thickness Tolerances (AMS 3195)

Sheet Thickness, 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)
Over 0.500 to 0.750 (12.70 – 19.05)
Over 0.750 (19.05)

Tolerance, inch (mm)

+0.030 (0.76) / -0.016 (0.41)
+/- 0.030 (0.76)
+0.050 (1.27) / -0.030 (0.76)
+/- 0.060 (1.52)
+/- 0.090 (2.29)
+/-0.120 (3.05)

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.