

S10

■ Features:

S10 is a standard film for various industrial material applications, where excellent handling property is required.

■ Thickness:

12, 23, 38, 50, 75, 100, 125, 188, 250, 350 μm

■ Typical properties:

Properties		Unit	#12 (47G)	#25 (92G)	#38 (150G)	#50 (200G)	#75 (300G)	#100 (400G)	#125 (500G)	#188 (750G)	#250 (10M)	#350 (14M)	Measurement method
Thickness	MMV	μm	11.5	23	38	50	75	100	125	188	250	350	
Tensile strength	MD	MPa	271	215	217	218	216	221	208	183	117	164	ASTM D882
	TD	MPa	215	221	238	235	224	223	216	177	177	169	ASTM D882
Elongation at Break	MD	%	124	170	180	184	173	163	171	188	193	195	ASTM D882
	TD	%	157	165	161	172	159	150	151	127	157	167	ASTM D882
Thermal Shrinkage at 150°C 30min	MD	%	1.5	1.2	1.2	1.1	1	1	0.9	1	1	0.9	ASTM D1204
	TD	%	-0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.7	0.7	ASTM D1204
Break down Voltage		kV	4.1	7.5	10.4	12.1	14.9	17.4	19.5	24.6	28	31.2	ASTM D149
Volume Resistivity (20°C)		$\Omega \cdot \text{cm}$	3×10^{17}	2×10^{17}	3×10^{17}	4×10^{17}	4×10^{17}	4×10^{17}	ASTM D149				
Dissipation Factor at (20°C, 1kHz)		%	0.36	0.39	0.4	0.4	0.4	0.42	0.43	0.43	0.43	0.4	JIS C2151
Coefficient of Friction	μs	-	0.6	0.6	0.6	0.6	0.6	0.6	0.6	-	-	-	ASTM D1894
	μd	-	0.4	0.4	0.4	0.4	0.4	0.4	0.4	-	-	-	ASTM D1894

■ Applications:

S10, with its standard characteristics, can be used in a wide range of industrial material applications, including FPC, membrane switches, adhesive tapes, electrical insulation, and casting/release.

■ Standards:

- UL746B: RTI Electrical 105 (°C) mechanical 105 (°C)
- UL94VTM-2 (#38~#188)

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