

Solar Battery Application EVA Film Properties Sheet

Sekisui Company Products

	Item	Notes	Units	Method	Normal			
					SPS002			
	Combination				SPS002			
Before Crosslinking	Thickness		μm		955	850	525	
	Tensile Strength	MD	kgf/cm ²	JIS-K7113	58.0	56.0	61.0	
		TD			51.0	52.0	61.0	
	Elongation Rate	MD	%	JIS-K7113	779	872	779	
		TD			804	879	874	
	2%	MD	kgf/10mm	Sekisui Method	0.21	0.17	0.10	
	Modulus	TD			0.20	0.16	0.10	
Displacement at 0.1MPa Compression			mm	Sekisui Method	0.057	0.057	0.046	
Glass Adhesion			kgf/20mm	Sekisui Method 145°C/10min	8.8	8.8	9.2	
After Crosslinking	Tensile Strength		kgf/cm ²	JIS-K7113	185	←	←	
	Elongation Rate		%	JIS-K7113	1233	←	←	
	Total Light Transmittance		%	JIS-K7105	89	←	←	
	Line Expansion Coefficient	-40°C		K ⁻¹	JIS-K7197	0.73×10 ⁻⁴	←	←
		10°C				3.0×10 ⁻⁴	←	←
	Gel Fraction			%		00	-	-
					Gel Measurement Conditions	↑ 150°C/20min		
Reference								

Caution: The above are measured values and not guaranteed

Physical Property Data

SPS002(Normal cure type)

				Tensile Strength		Elongation Rate		Grass Adhesion		Total Light Transmittance		YI
				Value	Mainte. rate	Value	Mainte. rate	Value	Mainte. rate	Value	Mainte. rate	Value
		Time (h)	kgf/cm ²	%	%	%	kgf/20mm	%	%	%	%	%
Weather-O-meter		0	186	100	1233	100		100	89.0	100	-2.5	
		500	165	89	1128	91		—	89.2	100	-7.0	
		1000	160	86	1148	93		—	89.0	100	-4.2	
		2000		0		0		—		0		
Super UV		0	186	100	1233	100	8.7	100	89.0	100	-2.5	
		200	104	56	805	65	4.3	49	89.1	100	-8.3	
Heat Resistance	90°C	0	185	100	1233	100	8.7	100	89.0	100	-2.5	
		500		0		0	9.6	110		0		
		1000	256	138	1303	106	8.2	94	89.5	101	4.8	
		2000	199	108	1147	93		0	89.1	100	5.0	
Heat & Humidity Resistance	85°C	0	185	100	1233	100	8.7	100	89.0	100	-2.5	
	85%R.H.	500	244	132	1368	111	8.5	98	89.8	101	2.2	
		1000	228	123	1396	113	6.6	76	90.3	101	0.5	