

Technical Datasheet

Items/ Unit / Test Method		Achilles Seiden Crystal Series										
Product name		Seiden Crystal	Seiden Crystal	Seiden Crystal	Seiden Crystal	Seiden Crystal	Seiden Crystal UV	Seiden Crystal Black	Seiden Crystal IG	Seiden Crystal Nasiji		
Thickness		0.10mm	0.30mm	0.50mm	1.00mm	2.00mm	0.30mm	0.30mm	0.30mm	0.30mm		
Width		183cm	137/ 183cm	137cm	137cm	137cm	137cm	137cm	137cm	137cm		
Length		50m	30m	30m	10m	10m	30m	30m	30m	30m		
Material		PVC	PVC	PVC	PVC	PVC	YELLOW PVC	BLACK PVC	GREY PVC	SEMI TRANSPARENT PVC		
Hardness		3S/ 45 PHR	4S/ 49 PHR	5S/ 53 PHR	6S/ 57 PHR	6S/ 57 PHR	3S/ 45 PHR	5S/ 53 PHR	5S/ 53 PHR	4S/ 49 PHR		
Weldable		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Weight ±		123g/m2	375g/m2	625g/m2	1232g/m2	2464g/m2	375g/m2	375g/m2	375g/m2	375g/m2		
Physical	100% Modulus [N] JIS K-6732	M.D.	15,5	37,7	52,8	89,0	182,3	37,7	37,7	37,7		
		T.D.	11,6	30,5	46,9	78,7	169,2	30,5	30,5	30,5		
	Tensile strength [N] JIS K-6732	M.D.	31,5	89,3	135,2	251,0	448,3	89,3	89,3	89,3	89,3	
		T.D.	23,4	78,8	127,3	235,5	399,0	78,8	78,8	78,8	78,8	
	Tear Strength [N] JIS K-6732	M.D.	8,4	24,7	36,7	69,9	149,2	24,7	24,7	24,7	24,7	
		T.D.	9,4	23,6	37,7	66,2	143	23,6	23,6	23,6	23,6	
	Elongation [%] JIS K-6732	M.D.	253	295	336	357	335	295	295	295	295	
T.D.		277	332	360	378	330	332	332	332	332		
Light Transmission [%] JIS K-7051		91,0	90,6	89,7	87,7	85,00	76,10	(-)	(-)	(-)		
Electrical	Surface Resistivity [Ω] JIS C-2170	Top	1,9 x 10 ⁹	1,4 x 10 ⁹	1,5 x 10 ⁹	1,1 x 10 ⁹	1,0 x 10 ⁹	1,4 x 10 ⁹	1,4 x 10 ⁹	1,4 x 10 ⁹	1,4 x 10 ⁹	
		Bottom	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	
	Volume Resistivity [Ω] JIS C-2170		1,8 x 10 ¹⁰	5,8 x 10 ⁹	3,4 x 10 ⁹	1,2 x 10 ⁹	9,5 x 10 ⁸	5,8 x 10 ⁹	5,8 x 10 ⁹	5,8 x 10 ⁹	5,8 x 10 ⁹	
Static Decay Time [sec] [±5kv→ 50v]		0,51	0,07	0,04	0,02	0,01	0,07	0,07	0,07	0,07		
F/R	Oxygen Index		27	27	27	28	27	27	27	27		

Complies with Order for Enforcement of the Fire Service Act Article 4-3.

M.D = MACHINE DIRECTION

T.D = TRANSVERSE DIRECTION

JIS = JAPANESE INDUSTRIAL STANDARD

Information stated on this Data Sheet is for reference purposes and is to the best of our knowledge, true and reliable. Results cannot be guaranteed.

Product features

- * Calendered
- * Reach compliant
- * Made in Japan
- * UV stabilised - Little discolouration
- * High Clarity - Transparency
- * Fire retardant - JIS K 7201
- * Excellent anti-static properties
- * Available in wide variation of thicknesses 0.1mm - 2.0mm

Caution

Clarity of Achilles Seiden Crystal may degrade due to aging, depending on environmental conditions. To maintain anti-static properties, monitor and replace this product as needed.

 [Measurement machine :
PROSTAT PRS-801]

 FTMS 101C-4046 Static
Decay Meter 23°C 13%RH

JIS K-7201