

FEDRIGONI

SPECIAL PAPERS

SYLVICTA

Sylvicta® by Fedrigoni is a cutting-edge, uncoated translucent barrier paper crafted from cellulose virgin fibers sourced from PEFC® and FSC® certified wood pulp. Fully recyclable, biodegradable, and both home and industrially compostable, Sylvicta® is also PFAS-Free and approved for direct food contact. This innovative material delivers exceptional barrier performance against mineral oils, oxygen, aroma, and grease, making it a high-performing, sustainable solution for luxury packaging. Designed as a wood-based alternative to plastic, Sylvicta® seamlessly blends functionality with sustainability. It embodies a virtuous lifecycle, ensuring environmental impact is minimized without sacrificing quality. Tailored for the packaging sector, Sylvicta® enables brands to meet eco-conscious objectives by offering a premium, plastic-replacing paper solution that elevates both form and function. Perfect for luxury packaging that demands sustainability with elegance, represents the future of responsible design.

Sylvicta® is also available in Flexi version to allow better foldability performance on packing lines.

DESCRIPTION

SIZE	GRAIN	SUBSTANCE
70X100*	LG	42 52 62 72 82 92 102 112 140 160 180

*Available also in reel

RANGE

Property	Unit	Method	42g/m ²	52g/m ²	62g/m ²	72g/m ²	82g/m ²	92g/m ²	102g/m ²	112g/m ²	140g/m ²	160g/m ²	180g/m ²
ATTRIBUTES													
Grammage	g/m ²	ISO 536	40-45	50-55	60-65	70-75	80-85	88-97	97-107	106-118	134-147	153-168	172-189
Moisture	%	ISO 287	7.5-8.5	7.5-8.5	7.5-8.5	7.5-8.5	7.5-8.5	7.5-8.5	7.5-8.5	7.5-8.5	7.5-8.5	7.5-8.5	7.5-8.5
Thickness	µm	ISO 534	38-48	46-56	52-62	59-69	67-77	70-86	77-93	84-100	104-120	117-137	130-150
Transparency	%	ISO 22891	79	78	77	75	74	73	72	71	67	66	63
Cobb 60	g/m ²	ISO535	25	25	27	27	27	27	25	25	24	24	23
Smoothness	S	ISO5627	30	30	30	30	30	30	30	30	25	20	20
Bendtsen Roughness	ml/min	ISO 8791-2	125	125	130	135	135	145	170	180	190	255	355
BARrier													
Oxygen Transmission Rate ¹	cc/m ² .d	ASTM F 1927	Footnote ¹	<3.0	<1.0								
Water Vapour Transmission Rate ¹	g/m ² .d	Taapi T448	90	80	75	70	60	50	40	29	37	35	30
MOSH/MOAH Migration ²	mg/kg/food	BIR method deriv. MCA098/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Grease resistance	hours	ISO 16592-1 (Palm kernel grease)	>24	>24	>24	>24	>24	>24	>24	>24	>24	>24	>24
KIT Test (grease resistance)	n	Tappi 559	12	12	12	12	12	12	12	12	12	12	12
Mechanical													
Tensile Strength MD	kN/m	ISO1924-2	3.2	3.8	4.2	5.0	6.0	7.0	8.2	8.6	9.8	11.0	12.0
Tensile Strength CD	kN/m	ISO1924-2	1.6	2.0	2.2	2.5	2.8	3.2	3.6	4.0	5.2	5.8	6.5
TEA ⁴ MD	J/m ²	ISO1924-2	70	95	112	130	150	180	200	220	300	350	400
TEA ⁴ CD	J/m ²	ISO1924-2	50	60	70	80	95	115	130	145	170	185	220
Elmendorf Tear ⁵	mN	ISO 1974	120	160	200	225	270	300	350	400	510	580	670

TECHNICAL FEATURES

¹Oxygen Transmission Rate and Water Vapour Transmission Rate Testing carried out at 23°C and 50%RH

²MOSH/MOAH migration from a reference paper through Sylvicta into food simulant

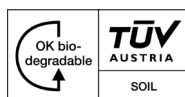
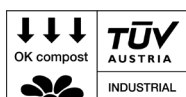
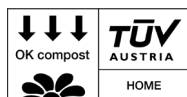
³OTR can be variable

⁴TEA = Tensile Energy Absorption

⁵Average of Machine Direction and Cross Direction

Specification data may change as the product is developed

Relative humidity 50% ± 10
ref. TAPPI 502-98



ECOLOGICAL FEATURES

It's available on a make-to-order service, subject to a minimum order quantity (reel and sheet). A new service is available for customers to order Sylvicta® reels and sheets for trial purposes prior to placing a full commercial order. Reels and sheets can be cut to your specific requirements and will be delivered fully food safety compliant. Trial orders will be despatched from our warehouse in Italy.

NOTES

SYLVICTA

Created using only renewable raw materials, Sylvicta®, produced using only renewable raw materials and available in a wide choice of grammages, is the ideal substrate for luxury packaging applications, from fine food & drink to cosmetics & fragrance and boutique retail & hospitality.

APPLICATIONS

Sylvicta® guarantees a high printability and is suitable for all major print such as offset, flexo, embossing, hot-foiling and die-cutting.

**PRINTING
SUGGESTIONS**

Suitable for all major converting processes: heatseal, coldseal, glueing, moisture barrier coating, metallization and lamination with kraft, board, PE.

**CONVERTING
SUGGESTIONS**

