Technical Data Sheet

Synaps by Agfa

Polyester based synthetic paper with superior print characteristics for conventional printing technologies. Synaps features exceptionally fast drying time for a quick turn-around that you will not get using standard offset inks on any other synthetic substrate. Synaps has antistatic properties that allow effortless printing and post-print processing.

Caliper	**Mil**	**4**	**5**	**6**	**8**	**10**	**14**	Test Method
	µm	100 ± 5	120 ± 6	150 ± 8	200 ± 10	250 ± 35	350 ± 20	
Bs.Wt.	Text	75	92	116	156	204	306	
	gsm	110	135	170	230	300	450	
Brightness	GE (TAPPI)	92.7	94.2	94.2	94.7	93.4		Technedyne S5
	ISO	90 - 92	92 - 94	92 - 94	92 - 94	91 - 93	90 - 93	ISO 2470C
L*		96.81	97.99	98.06	98.51	98.34		Color Tec PCM
a* Color		0.94	0.79	1.75	1.16	1.18		Color Tec PCM
b* Color		-1.80	-0.75	-0.75	-0.91	-0.49		Color Tec PCM
Opacity		89	92	95	96	98	97-99	ISO 2471
75° Gloss		4	4	4	4	4	2-4	TAPPI T480
BEKK Smoothness		>1000	>1000	>1000	>1000	>1000	>1000	ISO 5267
Stiffness	mN	3	6	12	30	50	>130	ISO 2493
Taber Stiffness		4	5	8	271	284		
		4	5	7	275	286		
High Temp. Limit	° F	230	230	230	230	230	230	Internal AGFA test (0.2% shrinkage)
	° C	110	110	110	110	110	110	Internal AGFA test (0.2% shrinkage)
Low Temp. Limit	° F	-40	-40	-40	-40	-40	-40	Internal AGFA test (brittleness)
	° C	-40	-40	-40	-40	-40	-40	Internal AGFA test (brittleness)
Chemical Resistance								
	Water	OK	OK	OK	OK	OK	OK	Internal AGFA test (10 Minutes)
	10% NaCl	OK	OK	OK	OK	OK	OK	Internal AGFA test (10 Minutes)
	38% H_2SO_4	OK	OK	OK	OK	OK	OK	Internal AGFA test (10 Minutes)
	Ethanol	OK	OK	OK	OK	OK	OK	Internal AGFA test (10 Minutes)

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	Acetone	No	No	No	No	No	No
Surface pH		5.6	5.6	5.6	5.6	5.6	5.6
Surface Energy		44	44	44	44	44	44

Internal AGFA test (10 Minutes)

Compatibility and Best Practices:

- Exceptionally fast drying time with conventional offset inks. No special inks or UV curing needed although they can be used.
- No offset powder is needed in most applications.
- RIT certified for use on HP Indigo Digital Presses.

Applications and Characteristics:

- Can be varnished or aqueous coated for greater surface strength and water resistance.
- Can be folded, die cut, drilled, and perforated.
- For printing and finishing tips please consult: www.agfa.com/synaps.

Recycling:

- Polyesters can be incinerated safely (according to local regulations) and therefore are a potential source of energy
- As inert materials they can be buried in approved landfill facilities..
- Contains 40% or more, mostly pre-consumer, waste.