

Technical Data Sheet

Thermanent Digital Polyester

	4 mil	5 mil	8 mil	11 mil	14 mil
Caliper (mil)	3.78 ± 0.16	4.8 ± 0.16	7.68 ± 0.20	10.55 ± 0.20	13.78 ± 0.28
GSM	125	155	258	368	510
Basis Weight	85# Text	105# Text	95# Cover	136# Cover	189# Cover
Density (g/cm³)	1.32	1.33	1.34	1.35	1.43
Brightness (T452)	95.4	96.4	94.9	93.9	94.6
Color					
L*	98	98	98	98	98
a*	3.5	3.5	3.5	3.5	3.5
b*	-1.2	-1.2	-1.2	-1.2	-1.2
Opacity (T459)	94	96	98	>99	>99
Gloss	<4	<4	<4	<4	<4
Sheffield Smoothness	34	34	34	34	34
Melting Point (°C)	255	255	255	255	255
Shrinkage	MD	-0.37	-0.37	-1.0	-0.90
	TD	0.1	0.1	-0.35	-0.20
Tensile Strength	MD	14	14	14	14
	TD	17	17	15	15
Elongation @ Break	MD	120	120	115	115
	TD	102	120	90	90

Compatibility and Best Practices:

- For best color reproduction on desktop printers, 4-mil and 5-mil Thermanent should be used, although 8-mil Thermanent has been used in some desktop machines.
- 8-mil Thermanent runs well on mid-range digital equipment such as Konica Minolta Bizhub 6500, Xerox DocuColor 6060, and Canon Image 4PRESS (C series).
- 11-mil Thermanent prints best on Production Color Presses and some mid-range equipment.
- 14-mil Thermanent is recommended for use on Xerox iGen presses only.

Applications and Characteristics:

- Thermanent is a polyester base sheet with a dry toner receptive coating.
- The sheet has a melting point above 255°C (491°F) so it will not melt or deform in the fuser area of laser printers and copiers.
- Thermanent is waterproof and greaseproof. Weather resistance depends on location and type of exposure.

Recycling:

- Polyesters should be recycled under #7- Other Plastics
- 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.

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