Product name: Yupo Ultra FEB

Mill: Yupo Corporation

Country of origin: Japan

Web address: www.yupo.com

Technical Specifications

- [ ] Coated Paper
  - [ ] A1
  - [ ] A2+
  - [ ] A2
  - [ ] A3
- [x] Archival Life
- [ ] ISO 9706 - Paper for documents Requirements for permanence
- [x] PH Neutral
- [ ] ISO 9001 - Quality Management System
- [ ] FDA Approved
- [ ] High Bulk
- [x] High Opacity
- [ ] Digital Print
- [ ] Inkjet Compatible
- [ ] Laser Guaranteed
- [ ] Laser Compatible
- [x] Waterproof
- [x] Special Inks Recommended

Yupo Ultra is a durable synthetic grade with brilliant color reproduction, high opacity and sharp print definition.

Yupo Ultra's smooth surface results in excellent print quality, and is ideal for both indoor and outdoor applications.

Yupo Ultra holds ink with high precision, enabling the most vivid imagery to come alive. Brilliant color reproduction, high opacity and sharp print definition represents the ultimate in print quality, and is totally compatible with both laminating and coating processes as well.

	ISO STD	Unit of measure										
Nominal Weight		g/m2	85	100	158	200	252					
Thickness		µm	110	130	200	250	300					
Whiteness		%	98	98	98	98	98					
Opacity		%	96	97	99	99	99					
Tensile Strength MD		kN/m	6	7	9	12	12					
Tensile Strength CD		kN/m	14	17	26	33	40					
Stretch MD		%	121	121	125	134	102					
Stretch CD		%	27	27	26	26	28					
Tear Strength MD		mN	380	500	990	1430	3320					
Tear Strength CD		mN	230	290	450	670	830					
Burst		kPa	990	1170	1730	2140	2472					

Last Updated: February 2009

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TECHNICAL SPECIFICATIONS

Yupo Ultra has an improved ink drying time, similar to that of a coated natural paper. It has a penetration synthetic layer on both sides and can be dried though permeation as well as oxidation.

Yupo Ultra is 100% waterproof, making it ideal for indoor and outdoor applications. It has excellent resistance to many chemicals including acids, alkalis, organic solvents and oils. None of these chemicals affect either durability or strength.

Yupo Ultra offers exceptional tear resistance as well as superior folding and tensile strength.

Yupo Ultra contains no fibres and is not coated and as a result has excellent archival properties.

Printing Process:
Flexo, Offset, Gravure, Letterpress, TTR and Screen

Printing Tips for Offset Printing:
1) Use synthetic paper ink, which dry by oxidation and include less that 8wt% of mineral oil.
2) Set spray powder volume at the same level as when printing on coated paper.
3) Control the amount of dampening water to be less that than when printing coated paper.
4) Scratch/Scuff resistance – depending on the level of scuff/scratch resistance required:
   a. Use strong anti-scratch ink or add binding varnish to ink (approximately 5wt%)
   b. Use over varnish (aqueous coating/UV Varnish/OP varnish
5) When being used for outdoor applications or where weather resistance is required, please use weather resistent Magenta and Yellow ink.

Printing Inks:
Synthetic paper inks with less than 8wt% of mineral oil are recommended.
Accepts any type of varnish: UV, water acrylic varnish and oil-based offset

Yupo® Recommended Inks:

Ink Manufacturer	Ink Brand
T&K Toka	Best SP
Inctec Ink	NS PF
Dainichiseika Color and Chemicals	Lithorex SP
DIC	Pop-K, Pop-VIP
Tokyo Printing Ink	New Cervo Synthetic Paper
Toyo Ink	TSP-400