

Arrowcure[®] UV Premium

UV Offset Process and Pantone Inks

Characteristics	<p>Arrowcure UV Premium range is a general purpose UV curable printing ink which has been formulated to print on both paper and synthetic stocks</p> <p><u>This range of ink is ITX and Benzophenone Free</u></p> <p><u>These inks contain SOY OIL</u></p> <p>The inks are suitable for Sheetfed, Narrow Web, Dry Offset and Letterpress applications</p>
Ink setting	Excellent UV Cure Characteristics
Substrates	<p>Ideal for Paper, Paperboard, synthetics, film, foil and plastics. Ideal adhesion to various synthetics (PS, PE, PET, PVC)</p> <p>It is furthermore recommended that in line Corona treatment or primer is carried out to give an improved adhesion characteristic.</p> <p>Inks should be tested for adhesion prior to printing.</p>
Printing properties	<p>Extremely good press stability, minimal dot gain, Excellent gloss and high strength.</p> <p>The inks exhibit very good surface hardness and Rub resistance.</p>
	Wash Up using a standard UV wash
Remarks and special information	<p>These products contain photo chemically active materials and may polymerize upon prolonged exposure to low energy sources such as heat and light</p> <ul style="list-style-type: none"> • These products should be stored in a dry cool area • Use appropriate PPE as specified by the MSDS • Best to use within 12 months of manufacture.
Post Processing	<p>The Arrowcure UV Premium range is suitable for over UV varnishing both in and off line.</p> <p>It has good acceptance of both hot foils and laminating.</p>
Packaging	2.5 kg metal tins

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Product names followed by [®] are trademarks registered by Flint Group Incorporated.

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Specific Product Information

Arrowcure UV Premium

Code	Colour	Light Fastness	Acid	Alkali	Soap	Solvent	Heat	Foilability	Hot stamping	Varnish ability
01692	Process									
A1UV-PRY	Process Yellow	4	4	4	5	4	4	4	4	4
A1UV-PRM	Process Magenta	4#	2	2	1	4	4	4	4	4
A1UV-PRC	Process Cyan	8	5	5	5	5	5	5	5	5
A1UV-PRK	Process Black	7	4	3	2	2	5	4	4	4
	Pantone									
A1UV-PT009	P Dense Black	7	4	3	2	2	5	4	4	4
A1UV-PT021	P 021 Orange	4	2	3	4	4	5	4	4	4
A1UV-PT032	P 032 Red	4#	2	2	1	4	4	4	4	4
A1UV-PT072	P 072 blue	7	5	5	5	5	5	5	5	5
A1UV-PT100	P Yellow	4	4	4	5	4	4	4	4	4
A1UV-PT200	P Warm Red	4	2	3	4	4	5	4	4	4
A1UV-PT300	P Rubine	4#	2	2	1	4	4	4	4	4
A1UV-PT500	P Purple	3#	4	3	1	3	3	2	2	2
A1UV-PT400	P Rhodamine	3#	4	3	1	3	3	2	2	2
A1UV-PT800	P Green	8	5	5	5	5	5	5	5	5
A1UV-PT901	P Trans White	---	5	5	5	5	5	5	5	5
A1UV-PT950	P-Opaque White	8	5	5	5	5	5	5	5	5
A1UV-PT1000	P-Untoned Black	7	4	4	3	3	5	5	5	5
	Light Fast									
A1UV-PT102	P LR Yellow	7	5	5	5	5	5	5	5	5
A1UV-PT202	P LR Warm Red	6	5	5	5	5	5	5	5	5
A1UV-PT302	P LR rubine	7	5	5	5	5	5	5	5	5
A1UV-PT332	P LR 032 Red	6	5	5	5	5	5	5	5	5
A1UV-PT402	P LR rhodamine	7	5	5	5	5	5	5	5	5
A1UV-PT552	P LR violet	7	5	5	5	5	5	5	5	5
A1UV-PT602	P LR Reflex Blue	7	5	5	5	5	5	5	5	5

Light Fastness:

Based on the result of light exposure test for printed specimen with Atlas Fade-O-Meter(Carbon Ark Light), the fadeness is ranked at eight different grades for simulating actual sun light exposure.(larger number indicates stronger light fastness resistance)
Ink marked with # will show the grade under normal condition, but the fadness gets worse under moisturized condition with high humidity.

Printed Specimen was made with RI Printability Tester, equipped with divided rubber roller. The ink amount used is 0.15cc to 0.20cc for testing.

Acid Resistance:

After dipping a printed specimen into 2% H₂SO₄ solution at 20 to 25 Centigrade for 2 hours,
The resistance is ranked at five different grades by the degree of color change.

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Alkali Resistance:

After dipping a printed specimen into 1% NaOH solution at 20 to 25 Centigrade for 30 minutes,

The resistance is ranked at five different grades by the degree of color change.

Soap Resistance:

After leaving 10% soap gel drops on a printed specimen at 40 Centigrade for 1 hour,

The resistance is ranked at five different grades by the degree of color change.

Solvent Resistance:

A printed specimen is left in mixed solution of acetone, ethylenegrycolemonoethylether, ethyl acetate, alcohol, and toluene

For five minutes at 20 to 25 centigrade. The evaluation should be done 48 hours after the specimen gets dried and set.

The resistance is ranked at five different grades by the degree of color change.

Heat Resistance:

After heating a printed specimen in a dryer at 150 Centigrade for 30 minutes,

The resistance is ranked at five different grades by the degree of color change.

- Degree of Color Change -

- 1: Extreme color change
- 2: Considerable color change
- 3: Moderate color change
- 4: Slight color change
- 5: No color change

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