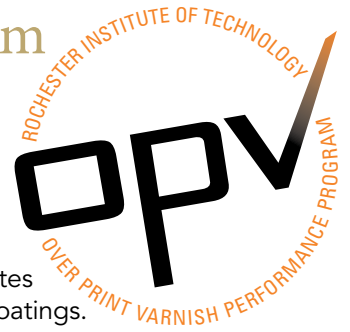


HP Indigo Labels & Packaging Over Print Varnish Performance Program



RIT's HP Indigo Over Print Varnish Performance Program enables manufacturers, suppliers and HP Indigo digital press owners to have both waterbase and UV coatings evaluated with HP Indigo digital certified media. The OPV Performance procedure incorporates several tests in accordance with the stated protective uses for the coatings.

As an initial screen test, the OPV will be applied to a certified media that was printed using an HP Indigo ws6000. The OPV will be evaluated for adhesion to the HP Indigo ink and visible orange peeling or mottling. After passing the initial screen test, the coating will be applied to specific test targets for evaluation of chemical and physical properties.

Screening Tests

- Peeling test
- Visible orange peeling or mottling of the coating surface

Full Baseline Test

Mechanical Wear

- Bending test (replicates finishing equipment)
- Crease test
- Abrasion test
- Solvent resistance tests
- Cross cut and peeling test

Optical tests

- Micro gloss
- Whiteness 100% White printed ink and unprinted background

Heat Resistance and Aging Test (optional)

- Direct heat test (replicates heat sealing process)
- Hot surface performance
- High-temperature performance
- Hot water performance (replicates sterilization process)
- Microwave performance (replicates use by end customer)
- Freezing performance

UV Light Resistance Performance (optional)

- Performance evaluation using Xenon arc test chamber



Reporting

Once completed, a comprehensive report is then generated for each OPV/substrate combination and given to the supplier.

Scheduling

Scheduling depends on facility availability. Attempts will be made to accommodate all scheduling needs.

To schedule evaluation activity, please contact:

Robert Matesic

Printing Applications Laboratory

Tel: (585) 475-7333

Fax: (585) 475-2690

E-mail: rjmasp@rit.edu

Fee

Full Baseline Test	\$725 one coating on one substrate
Heat Resistance and Aging	\$115 one coating on one substrate
UV Resistance (light fastness)	\$350 one coating on one substrate

** Volume Discounts available for requests of more than 10 coatings*

Cancellation Policy

Cancellation within 5 working days of the scheduled trial date will incur a charge of \$100 for administrative labor.

Shipping

All OPV samples to be provided in an approved shipping container. One gallon (4 liters) is required for each OPV/substrate combination selected.

All OPV samples must be shipped with an accompanying MSDS. The shipment will not be accepted if no MSDS is provided.

Robert Matesic
Rochester Institute of Technology
Printing Applications Laboratory
66 Lomb Memorial Drive
Building 78, Dock 3
Rochester, NY 14623

Over Print Varnish Data Sheet



Please complete this form for each OPV to be evaluated and return it to Robert Matesic by e-mail (rjmasp@rit.edu) or fax (585-475-2690).

Date:

Evaluation Type: Full Baseline Test
 Heat Resistance & Aging UV Light Resistance

**Unused materials will be returned at the customer's expense.*

OPV Manufacturer

Contact Name: _____
Company Name: _____
Address: _____
City/State/Zip Code: _____
Business Type: _____
Phone: _____ Fax: _____
E-mail: _____ Web: _____

OPV Information and Properties

OPV Name: _____
 Water based UV Curable
Available OPV Substrates: _____ (\$725 one coating on one substrate)
 Polyethylene Polypropylene Metalized Paper Estate 8
 Custom (Call RIT for details)

Manufacturing Facility

US
 CANADA
 EMEA
 ASIA-PACIFIC
 LATIN AMERICA