

# Overprint Varnishes (OPVs) for HP Indigo\*

Ashland is always solving the most challenging problems in digitally printed flexible packaging. Our line of UV and water based overprint varnishes was developed for the most demanding digital print label applications. These products have been evaluated by the Rochester Institute of Technology (RIT) as part of their Over Print Varnish Performance Program for HP Indigo. Ashland's Purerad™ and PureKote™ overprint varnishes provide protection of HP Indigo ink coupled with high performance scratch and chemical resistance. In addition, some products give excellent heat and UV resistance.

## Radiation Curable OPVs

Product	Description	Substrate	Adhesion	Mechanical Wear	Solvent Resistance	Optical	Heat Resistance	Aging UV Indoor Exposure
Purerad™ DP9000	High Gloss	OPP Label Stock	***	***	**	**	***	N/T
		Paper Label Stock	***	***	***	**	***	N/T
Purerad DP9110E	High Gloss Thermal Laser Imprintable	Paper Label Stock	***	***	***	**	***	N/T
Purerad DP9130	High Gloss Direct Thermal	OPP Label Stock	***	***	***	**	**	N/T
		Paper Label Stock	***	***	***	**	***	N/T
Purerad DP9160E	High Gloss Scuff Resistant	OPP Label Stock	***	**	***	**	N/T	N/T
		Paper Label Stock	***	***	***	***	***	N/T
Purerad DP9200	High Gloss Heat Resistant	OPP Label Stock	***	***	***	**	***	N/T
		Paper Label Stock	***	***	***	**	***	N/T
Purerad DP9250	High Gloss UV Resistant	OPP Label Stock	***	***	***	**	N/T	***
		Paper Label Stock	***	***	***	**	N/T	***
Purerad DP9010	Matte	OPP Label Stock	***	***	**	**	***	N/T
		Paper Label Stock	***	***	***	***	***	N/T
Purerad DP9120E	Matte Laser Imprintable	OPP Label Stock	***	***	***	**	***	N/T
		Paper Label Stock	***	***	***	**	***	N/T
Purerad DP9140	Matte Direct Thermal	OPP Label Stock	***	***	***	**	***	N/T
		Paper Label Stock	***	***	***	***	***	N/T

## Water-based OPVs

Product	Description	Substrate	Adhesion	Mechanical Wear	Solvent Resistance	Optical	Heat Resistance	Aging UV Indoor Exposure
Purekote™ DP9600	Matte	OPP Label Stock	***	***	**	N/T	N/T	N/T
		Paper Label Stock	***	***	***	**	N/T	N/T
Purekote DP9610	Matte	OPP Label Stock	***	***	**	N/T	N/T	N/T
		Paper Label Stock	***	***	**	**	N/T	N/T
Purekote DP9500	High Gloss	OPP Label Stock	***	***	**	***	N/T	N/T
		Paper Label Stock	***	***	***	***	N/T	N/T
Purekote DP9510	High Gloss OPV / Primer	OPP Label Stock	***	***	**	***	N/T	N/T
		Paper Label Stock	***	***	***	***	N/T	N/T

Products have been evaluated by Rochester Institute of Technology (RIT) for Hewlett Packard (HP\*).

\*\*\* Good performance

\*\* Best performance (top performance at RIT)

N/T Not Tested

Optical Micro gloss and color change

Products are available globally, please check with your Ashland account manager on availability



## About Ashland

We are **passionate, tenacious, solvers** who thrive on developing practical, innovative, and elegant solutions to complex problems in applied chemistry, always pushing the boundaries of what's possible, and advancing the competitiveness of our customers in the printing and flexible packaging industries.

Our people are distinguished by their ability to create and apply specialized chemistry in ways that enable customers to amplify the **efficacy**, refine the **usability**, add to the **allure**, ensure the **integrity**, and improve the **profitability** of their products and applications. We achieve this by offering a vast product line, custom solutions, and superior technical support.

Our products deliver improved efficacy to and usability to flexible packaging, labels and traditional packaging. What is your greatest goal and your biggest obstacle? Talk to us. We are always solving, and we can help solve for you, too.

## Diversified Technology Selection

Ashland provides innovative technologies for surface and bonding enhancement for the label printing, packaging and substrate converting industries. Ashland's extensive product line of pressure sensitive, flexible packaging and laminating adhesives, along with UV/EB and water based overprint and specialty coatings are formulated for high-performance to meet our customer's specific requirements.

When it comes to adhesives and coatings Ashland is leading the way.

### Label Printing

- Digital primers & topcoats
- Overprint varnishes
- Printable pressure sensitive adhesives
- Laminating adhesives
- Specialty functional coatings
- Low migration

### Packaging

- UV/EB, laminating adhesives
- Solventless laminating adhesives
- Water-based laminating adhesives
- Print receptive coatings
- Heat seal adhesives
- Cold seal adhesives

### Substrate Converting

- Release coatings
- Pressure sensitive adhesives
- Specialty coatings
- Primers & topcoats
- Heat seal adhesives
- Adhesive deadeners

## Environmental Health and Safety

Ashland takes Responsible Care\* seriously. With teams of regulatory experts, we not only see that our products meet the ever-changing global regulatory requirements, we will lend that expertise and capability to you. We will guide you through what you need so your packaging Does No Harm to the consumer.

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