



NUMBER 5109-E

PureRad™ L8080E

UV Pressure Sensitive Adhesive for Flexographic Press

Introduction

PureRad L8080E is a UV curable pressure sensitive adhesive designed to create a temporary or permanent bond to a variety of substrates including HDPE, LDPE, PVC, PET, paper, metals, and glass. PureRad L8080E is pressure sensitive immediately following UV curing -therefore, it is ideal for use in laminating opaque substrates.

Additionally, the PureRad L8080E may be used as a wet laminating adhesive when applied, nipped, and cured beneath a UV transparent packaging film. Resulting structures are highly flexible and suitable for heat shrinkable packaging constructions.

Ashland custom formulates UV curable materials to meet application requirements. Customers are invited to submit printed substrates and coating specifications for evaluation in our laboratory.

Typical Properties

| | |
|--------------------|--|
| Viscosity: | 1250 ± 250 cps at 25°C |
| Cure Rate: | ~30 m/min, 120 w/cm lamp @ 13 g/m ² |
| Odor: | Mild, typical acrylate |
| Liquid Appearance: | Gold to amber |

CURED FILM PROPERTIES

| | |
|-----------------------------------|-------------------|
| 180° peel adhesion ¹ : | 20 N/25mm – Steel |
| Loop Tack ² : | 14 N – Steel |

¹ PSTC-1, 30 minute dwell, 13 g/m²

² 1 square inch contact area

Storage and Handling

This UV curable coating may be stored and handled in stainless steel or baked phenolic-lined containers. Amber glass or plastic containers may also be used. UV curable compounds should be stored in the dark at temperatures not exceeding 40°C. Do not store the material under an inert atmosphere.

Compatibility and Processing Considerations

The PureRad L8080E is designed for flood or pattern application via flexographic print methods. Best results can be achieved when a 13 micron film thickness is applied. A 70 line 40 BCM anilox is recommended as a starting point. A finer line, lower volume anilox cylinder may be used; however bond strengths may be diminished. A minimum surface energy (dyne level) treatment of 42 dynes/cm is recommended for film applications



RESPONSIBLE CARE®

All statements, information and data presented herein are believed to be accurate and reliable, but are not to be taken as a guarantee, an express warranty, or an implied warranty of merchantability or fitness for a particular purpose, or representation, express or implied, for which Ashland Inc. and its subsidiaries assume legal responsibility. © Registered trademark, Ashland or its subsidiaries, registered in various countries. ™Trademark, Ashland or its subsidiaries, registered in various countries. *Trademark owned by a third party. © 2015, Ashland.
06-2015

Precautions

This UV curable coating has toxicological properties that are not completely known. This product may cause eye and/or skin irritation and will possibly cause sensitization or other allergic reactions. It should be noted that irritation may not be immediate so exposure may not be recognized when it occurs. Precautions must be taken to avoid eye or skin contact or inhalation of vapors.

Users should consult the Safety Data Sheet (SDS) to familiarise themselves with the product hazards and the precautions to be taken when handling or using this product.