



# New Higher Speed, Higher Efficiency & Higher Performance Laminating Adhesives

## PACACEL<sup>™</sup> Solventless Adhesive Technology

PACACEL<sup>™</sup> Solventless Adhesives are a high efficiency adhesive suitable for a wide range of applications, from general purpose through high performance. The new technology enables converters to capture just-in-time business opportunities, while realizing cost savings to create strong value-in-use.

Dow understands the importance of shorter runs, faster time to market and broader performance, and that's why we've developed PACACEL<sup>™</sup> adhesives to deliver operational efficiencies and improved appearance. With faster curing, PACACEL<sup>™</sup> adhesives are ready for food contact in two days, slitting in four hours and pouching in 24 hours. The new solventless adhesive enables high running speeds up to 1,400 feet per minute, and reduced machine downtime because of easy cleaning and good pot life.

PACACEL<sup>™</sup> Solventless Adhesives also help converters and brand owners meet enhanced regulatory compliance:

- FDA 175.105 and 177.1395 B through J conditions of use.
- European compliance and fast PAA decay of two days.
- Both FDA and EU compliance using as low as a 1 mil PE sealant layer

### Typical Applications:

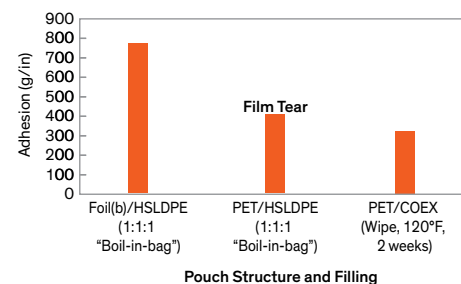
PACACEL<sup>™</sup> Solventless Adhesives are suitable for a variety of food packaging applications, including:

- Coffee and other beverages
- Candy bars
- Fresh produce
- Cheese and yogurt
- Meats
- Snack food
- Ready meals packaging
- Trays and lidding films
- Barrier films
- Microwavable and ovenable

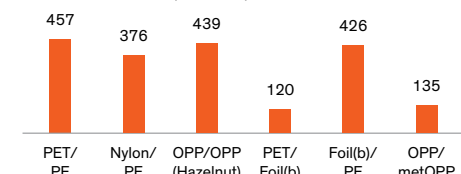
### Your Benefits

- Shorter Time to Market
  - Slitting in 4 Hours
  - Form a Package in Less Than 1 Day
  - PAA Decay in 2 Days
- Regulatory Compliance
  - FDA
  - European Union
- Lower Cost-in-Use Column
  - Reduced Line Downtime
  - Reduced Curing Inventory
  - High Run Speed

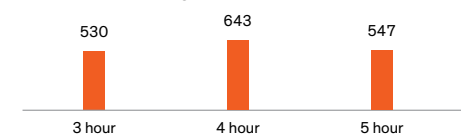
**Figure 1:** Product Resistance Test – L75-191/CR 88-141



**Figure 2:** One-week Adhesion (g/in) – L75-191/CR-85 (100:50)



**Figure 3:** Curing After 3, 4, and 5 Hours for Slitting (PET/PE Adhesion, g/in) – L75-191/CR-85 (100:50)



## Science that Connects



Expertise



Capabilities



Collaboration



Solutions

### North America

U.S. & Canada 1 800 441 4369  
1 989 832 1426  
Mexico + 1 800 441 4369

### Latin America

Argentina + 54 11 4319 0100  
Brazil + 55 11 5188 9000  
Colombia + 57 1 219 6000  
Mexico + 52 55 5201 4700

### Europe/Middle East

00 800 3694 6367  
00 31 115 672626  
Italy 800 783 825

### South Africa

00 800 99 5078

### Asia Pacific

+ 800 7776 7776  
+ 603 7965 5392  
+ 86 21 3851 4988  
China + 400 889 0789

**dow.com**

The principles of Responsible Care® and Sustainable Development influence the production of printed literature for The Dow Chemical Company ("Dow"). As a contribution towards the protection of our environment, Dow's printed literature is produced in small quantities and on paper containing recovered/post-consumer fiber and using 100 percent soy-based ink whenever possible.

NOTICE: Any photographs of end-use applications in this document represent potential end-use applications but do not necessarily represent current commercial applications, nor do they represent an endorsement by Dow of the actual products. Further, these photographs are for illustration purposes only and do not reflect either an endorsement or sponsorship of any other manufacturer for a specific potential end-use product or application, or for Dow, or for specific products manufactured by Dow.

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, the Customer is responsible for determining whether products and the information in this document are appropriate for the Customer's use and for ensuring that the Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Dow assumes no obligation or liability for the information in this document. **NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.**

NOTICE: If products are described as "experimental" or "developmental": (1) product specifications may not be fully determined; (2) analysis of hazards and caution in handling and use are required; (3) there is greater potential for Dow to change specifications and/or discontinue production; and (4) although Dow may from time to time provide samples of such products, Dow is not obligated to supply or otherwise commercialize such products for any use or application whatsoever.

NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS: Dow will not knowingly sell or sample any product or service ("Product") into any commercial or developmental application that is intended for:

- long-term or permanent contact with internal bodily fluids or tissues. "Long-term" is contact which exceeds 72 continuous hours;
- use in cardiac prosthetic devices regardless of the length of time involved ("cardiac prosthetic devices" include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass-assisted devices);
- use as a critical component in medical devices that support or sustain human life; or
- use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

Dow requests that customers considering use of Dow products in medical applications notify Dow so that appropriate assessments may be conducted.

Dow does not endorse or claim suitability of its products for specific medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that the Dow product is safe, lawful, and technically suitable for the intended use. **DOW MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE SUITABILITY OF ANY DOW PRODUCT FOR USE IN MEDICAL APPLICATIONS.**

This document is intended for use in North America.

Published November, 2016.

© 2016 The Dow Chemical Company

®Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

®Responsible Care is a service mark of the American Chemistry Council. Dow is a partner in the American Chemistry Council Responsible Care initiative.