

## Ultra-Clean, Protective, PCB Panel Interleaving Sheet



### Prevents Damage to Inner/Outerlayer Panels

**PACOGARD**® Panel Separator or "Slip" Sheets are a line of proprietary, process-enhancement products specifically engineered to protect both Inner & Outerlayer PCB Panels from scrap resulting from handling Damage, excessive Oxidation and Air-borne Particulates. PACOGARD also significantly reduces "False Alarms" at AOI.

#### **COST-SAVING BENEFITS OF PANEL INTERLEAVING:**

- Quantifiable reduction of "False Alarms" at AOI due to Handling Damage and surface Particulates
- Reduction of Handling Scratches, Dents, And Electrical Opens due to panel movement
- Dramatic slow-down of Surface Oxidation [cause of poor adhesion of Photoresist, Metal Plating, and Solder Mask] increases "hold times" significantly.
- Protects panel surfaces from air-borne prepreg Dust, Fibers, and destructive Fumes.

#### **PACOGARD® FEATURES**

- **PACOGARD**®, with clean, fiber-free, inert, releasable surfaces, is color-coded to eliminate cross-area Process Contamination.
- **PACOGARD**®, clad on both sides with a polymeric barrier coating that is both chemical and moisture resistant, can withstand moisture-relief baking temperatures [250°F/121°C].
- **PACOGARD**® has negative static potential and a low Coefficient of Friction to prevent cosmetic abrasion of sensitive copper and oxidized surfaces.
- **PACOGARD**® has built-in durability to provide multiple re-use.

#### **DESCRIPTION**

**PACOGARD**®, Panel Interleaving or "Slip" Sheets, in standard format, are a proprietary, layered construction consisting of a cellulosic core sandwiched between "White" polymeric barrier layers that are fully releasable.

## PRODUCT INFORMATION BULLETIN

In addition to "White" [lamination area usage], PACOGARD is available in "Yellow" [imaging area usage] and "Green" [plating area usage] colors. Colors assure that there is no cross-area chemical or particulate Contamination and recycling is facilitated.

- **PACOGARD #9000**, approximately .009" [225μ] thick, offers self-supporting rigidity, maximum panel protection, and durability.
- **PACOGARD #3500**, approximately .0035" [85μ] thick, is engineered to maximize productivity in automated handling systems. Though not self-supporting, it incorporates all the features of #9000 at reduced cost.

### **PACOGARD® APPLICATIONS FOR SCRAP REDUCTION**

- ✓ Protection of In-coming Laminates
- ✓ Developing and Removal of Unexposed Dry Film
- ✓ Stripping
- ✓ Lay-up and Lamination
- ✓ Solder Mask
- ✓ NC Route and Electrical Testing
- ✓ Surface Preparation of Laminates
- ✓ Etching of Exposed Copper
- ✓ AOI
- ✓ Pre-Bake and Oxide Deposition Process
- ✓ Post-Bake
- ✓ Hot Air Leveling

### **AVAILABILITY**

**PACOGARD®** Panel Interleaving Sheets are available in rolls and in custom-made sheet sizes, tooled to customer's specifications.

PACOGARD, as well as the complete line of lamination enhancement products listed below, is available from leading local Distributors around the world who offer "Just-in-Time" delivery from locally-available stocks.

Other complimentary Lamination Assist Product offerings include:

#### RELEASE PRODUCTS



#### PRESS PADS



#### APPLICATION SPECIFIC



A Division of Multilayer Worldwide Enterprises LLC



3 Valley Mill Road  
Holyoke, MA 01040  
tel: 413-534-7800 fax: 413-535-2115  
www.pacothane.com