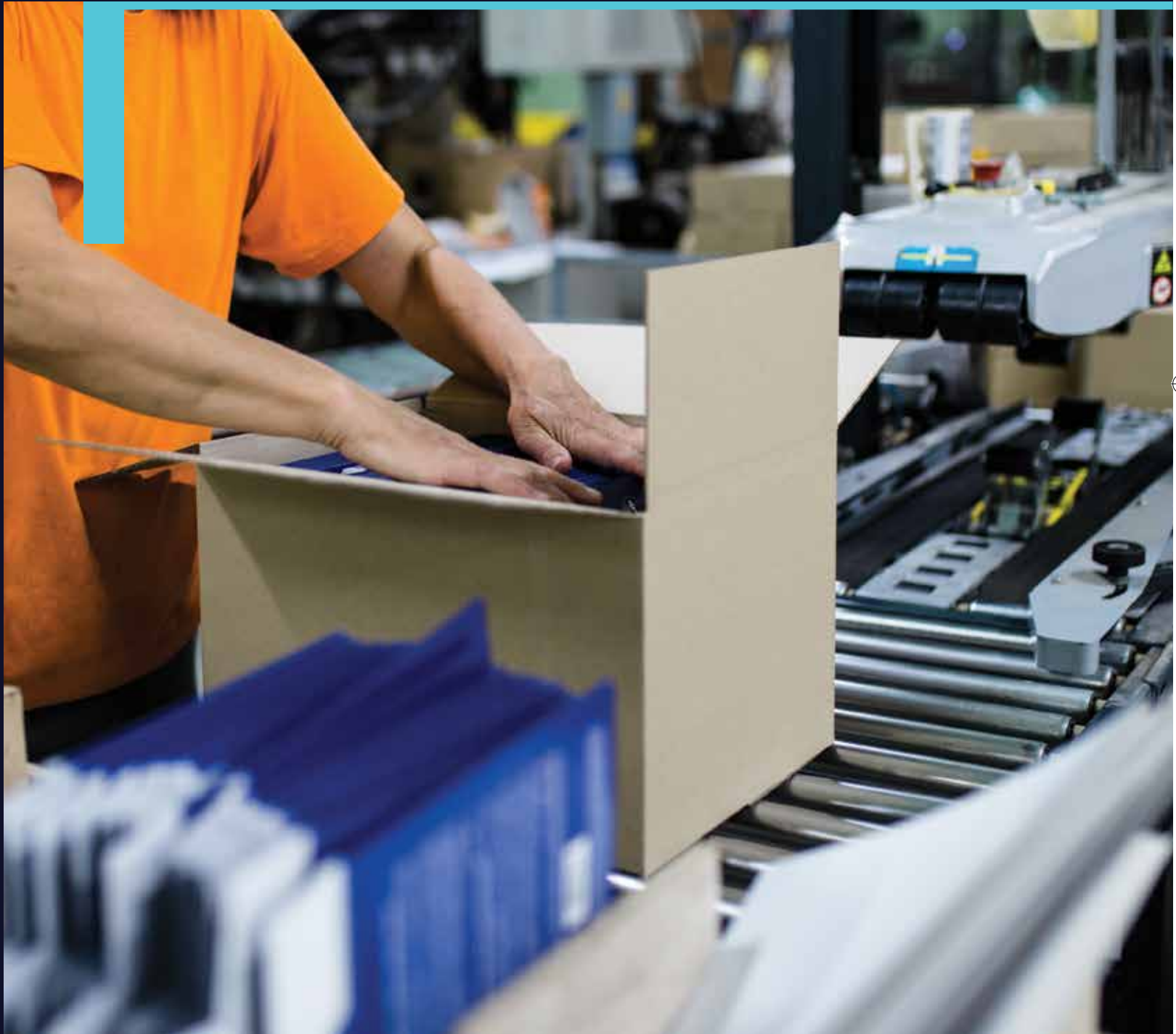




INDUSTRIAL
PRODUCTS

ADHESIVES FOR Packaging





Pidilite Industries Ltd. established in 1959 is an Indian multinational company dealing in Specialty chemical business. Pidilite is India's market leader in adhesives and sealants across all the business segments - branded consumer products, trade products, and industrial products. Starting with a single product and a single factory we have grown to a stature of being recognised as the maker of some of the India's most trusted brands of Adhesives and Sealants.

Pidilite is consistently at the forefront of redefining products, product applications and standards of customer service. This is all due to modern manufacturing plants located in India and in overseas geographies. We have five state of art technical research & innovation centres. **Today our product portfolio includes cost effective top quality products that are marketed in over 70 countries globally with an extensive network of dealers and channel partners spread across India and in various countries.**

Having a long history of being a customer-centric organisation, implementing Total Quality Management at Pidilite was a natural choice. As our valued customer,

you can rest assured about the safety, effectiveness, and quality of our products. We are strongly committed towards developing, producing, and supplying products that meet your changing needs.

Pidilite's Industrial Division caters to variety of applications ranging from Coatings and binders, Pigments, Footwear and Leather applications, Textile Industry and Packaging applications. We make Hotmelts, Solvent based, and Water based adhesives for applications like Cigarette, Paper Converting, Lamination, Book Binding, End of line, Mattress, Tapes & Label, Product Assembly and Flexible Packaging.

Jowat SE, Germany is a leading supplier of Industrial Adhesives Worldwide. **Pidilite Industries Ltd and Jowat SE, have entered into a technical collaboration encompassing the high growth specialised category of hot melt adhesives.** This is in line with our commitment to give adhesive solutions to the customers based on our In-house research and technologies available globally.

We are ISO 9001; ISO:14001 and OHSAS 18000 company and our major products comply to various National and International norms.

FOLDING CARTONS

Pidilite has trusted brands being used for decades for Mono cartons and allied applications / Rigid Packaging.

We offer range of products based on various technologies like Ethylene Vinyl Acetate (VAE), Acrylics, Acrylic copolymers, Reactive polyurethane hotmelt (HMPUR), Polyvinyl Acetate (PVAc) and Polyvinyl Alcohol (PVAI) which are used for:

- Lamination
- Side Gluing
- Window Gluing
- Liner Attachment
- Clear Cartons
- Litho-lamination (Fluting)
- Rigid Boxes



LAMINATION

We offer range of Water-Based Emulsions for Film to board lamination using Dry and Wet lamination techniques. These laminates majorly go into the making of Folding boxes, Rigid boxes, Book covers, Paper plates, Commercial printing etc.

The products are based on VAE, Acrylic and Acrylic Copolymers used to laminate a variety of films such as METPET, PET, BOPP (Clear & Matt) and PVC.

PIDICRYL FF 103

% Solids : **51 ± 1** | Viscosity @30 °C (Poise) : **0.1-2.0**

FEATURES: High Bond strength, High Heat Resistance and High Gloss

APPLICATION: Dry Lamination for METPET / PET / BOPP

FEVICOL HP 002

% Solids : **52.5 ± 1.5** | Viscosity @30 °C (Poise) : **12-20**

FEATURES: High Bond strength, High Heat Resistance and Excellent Gloss

APPLICATION: Wet lamination of METPET / PET / BOPP films

PIDILAM LM 51

% Solids : **38 ± 2** | Viscosity @30 °C (Poise) : **20-40**

FEATURES: Excellent Gloss, High Heat Resistance, High Mileage and Excellent Bond strength

APPLICATION: Wet lamination of METPET / PET / BOPP films

PIDILAM LM 34

% Solids : **37.5 ± 1.5** | Viscosity @30 °C (Poise) : **20-40**

FEATURES: High Bond, High Heat Resistance and High Mileage

APPLICATION: Wet lamination of PET / BOPP / PVC films

PIDILAM LM 26

% Solids : **45 ± 2** | Viscosity @30 °C (Poise) : **30-45**

FEATURES: High Bond, High Gloss with Good Heat Resistance

APPLICATION: Wet lamination of BOPP / PVC films

PIDILAM I 24

% Solids : **37.5 ± 1.5** | Viscosity @30 °C (Poise) : **25-45**

FEATURES: General purpose product with good Bond strength, High Gloss and Good Heat Resistance

APPLICATION: Wet lamination of BOPP / PVC films

FEVICOL 4000 MP

% Solids : **47 ± 1** | Viscosity @30 °C (Poise) : **2.5-4.5**

FEATURES: High bond to Metal layer, No metal tarnishing, High Green bond for faster secondary operations

APPLICATION: Transfer Metallization for Paper

PIDIGREEN TM 21

% Solids : **48 - 52** | Viscosity @30 °C (Poise) : **30-40**

FEATURES: Good Scuff resistance, High bond to Metal Layer

APPLICATION: Transfer Metallization on Paper and board

We also offer products like Pidicryl FF 324, Pidivyl LM 11, Pidilam LM 53 ND, for specific performance criteria for lamination.



MONOCARTONS

High performance Polymers designed for variety of high-speed Machines and Applicators are available.

We offer adhesives at various viscosities with excellent rheological properties and temperature resistance which are specially designed for laminated/aqua varnished/non-laminated surfaces.

FEVICOL CPW

% Solids : **57 ± 2** | Viscosity @30 °C (Poise) : **25-40**

FEATURES: Product for Laminated / Aqua coated cartons, High Green Bond and Bond Strength and High Heat Resistance

APPLICATION: Side Gluing, Liner /Window Attachment used by wheel /stereo applicator

FEVICOL BMW

% Solids : **58 ± 1** | Viscosity @30 °C (Poise) : **45-70**

FEATURES: Very High bond strength adhesive for Laminated / Aqua cartons

APPLICATION: Side Gluing, Liner / Window Attachment using wheel / stereo applicator

FEVICOL 2000 L

% Solids : **55 ± 1** | Viscosity @30 °C (Poise) : **07-09**

FEATURES: Product for Laminated / Aqua cartons, High bond strengths and High Heat Resistance

APPLICATION: Nozzle grade for Side Gluing & Lock Bottom, Window Attachment & Liner Attachment using stereo applicator

FEVICOL 3000 L

% Solids : **53.5 ± 1.5** | Viscosity @30 °C (Poise) : **04-06**

FEATURES: Lower viscosity for fine nozzle applicators, Very High bond for difficult surfaces

APPLICATION: Side Gluing and Lock bottom using Nozzle applicator

FEVICOL SA 75 IC (HOT MELT)

Softening point : **77 ± 5°C**
Viscosity @150 °C (cps) : **3000-4500**

FEATURES: Medium viscosity fast setting hot melt for Deep freeze applications

APPLICATION: Polycoated carton side Gluing using nozzle applicator. Suited for plastic surfaces

JOWATHERM-REAKTANT 603.57

Viscosity @ 140 °C (cps) : **6625 ± 2375**

FEATURES: High bond for PET and PP cartons, Transparent glue line

APPLICATION: HMPUR for Clear / Transparent cartons

We also offer Fevicol SA 85 IC for Low temperature applications and Flushing agent 930.34 is offered with HMPUR 603.57.



LITHO LAMINATION

Water based adhesives based on various chemistries are available for Flute to board / kraft lamination. These products are also used for board-to-board lamination. These are synthetic products which provide high stiffness, facilitate faster operations with low moisture retention and inhibit microbial growth.



PIDIVYL 3110

% Solids : **48-50** | Viscosity @30 °C (Poise) : **32-42**

FEATURES: Medium viscosity, High bond adhesive suited for Auto lamination machines

APPLICATION: Flute lamination, Board building

PIDIVYL FS 45

% Solids : **34 ± 2** | Viscosity @30 °C (Poise) : **10-20**

FEATURES: Medium viscosity, High bond adhesive suited for Auto lamination machines

APPLICATION: Flute lamination, Board building

PIDICOL T 33

% Solids : **23.5 ± 1** | Viscosity @30 °C (Second) : **40-70**

FEATURES: Economical product for stiff laminates with moderate open time

APPLICATION: Flute lamination

PIDICOL T 28

% Solids : **25 ± 1** | Viscosity @30 °C (Poise) : **25-30**

FEATURES: High open time for semi - automatic machines. Used by dilution

APPLICATION: Flute lamination, Board building

PidiGreen KP 25

% Solids : **18-22** | Viscosity @30 °C (Poise) : **15-25**

FEATURES: Economical grade for flute lamination on Automatic machine.

APPLICATION: Flute lamination, Board building

GLUED- LAP

Pidilite Industries offer a range of products based on various chemistries for entire spectrum of machinery and all types of shipper boxes to be glued. We offer high-speed UV camera detectable nozzle grade adhesive for online inspection systems installed on FFG machines.



FEVICOL 3000 L UV

% Solids : **53.5 ± 1.5**
Viscosity @30 °C (Poise) : **04-06**

FEATURES: UV camera detectable grade with High Bond strength and high Heat Resistance

APPLICATION: Nozzle grade for high speed FFG machines

FEVICOL 2000 L

% Solids : **55 ± 1**
Viscosity @30 °C (Poise) : **07-09**

FEATURES: High Green bond, Excellent Bond strength, High Heat Resistance and deep freeze properties

APPLICATION: Nozzle grade for high speed machines

PIDIVYL 3110

% Solids : **49 ± 1**
Viscosity @ 30 °C (Poise) : **32-42**

FEATURES: Fast drying, Strong bond and Good Heat Resistance

APPLICATION: Suited for High speed machines with Wheel applicators

PIDIVYL FS 45

% Solids : **34 ± 2**
Viscosity @ 30 °C (Poise) : **10-20**

FEATURES: High Green bond, Excellent Bond strengths

APPLICATION: Suited for Medium speed machines with Wheel and Nozzle applicators

FEVICOL JOWAT 851.10

Softening point : **110 ± 5°C**
Melt Viscosity @ 160 °C (cps) : **1100± 250**

FEATURES: PO based hotmelt with High Bond strength

APPLICATION: Large / Appliance shipper boxes gluing using Nozzle applicator

FEVICOL SA 77 BB

Softening point : **103 ± 6°C**
Melt Viscosity @ 150 °C (cps) : **1700-3000**

FEATURES: Hot melt with Moderate open time and High Bond strength

APPLICATION: Large / Appliance shipper boxes gluing using Nozzle applicator

Products like Fevicol CPW, Fevicol 1000 L, Pidivyl FS 35, Pidivyl AG 99, Grippo are also available for high to medium speed machines using wheel applicators

RIGID BOXES

Pidilite Offers range of adhesives required for Rigid box construction. Rigid boxes are widely used for Mobile phones, Gift boxes, Sweet boxes etc. We have wide spectrum of products used in Rigid Box construction like Dry lamination adhesive, Protein glue, Water based for box formation, PSHMA and Water based adhesive for inner tray bonding.

FEVICOL AM 150 RC

Refractive Index : **55 ca.**
Melt Viscosity @ 60°C (cps) : **1000-1200**

FEATURES: Protein glue with high Green bond, High stiffness and Excellent bond

APPLICATION: Laminate wrapping for tray formation on Automatic and Semi Automatic machines

PIDICRYL FF 103

% Solids : **51 ± 1**
Viscosity @ 30°C (Poise) : **0.1-2.0**

FEATURES: High Gloss, High Bond strength and Excellent Heat Resistance

APPLICATION: Dry Lamination adhesive for Film to board

FEVICOL 2000 L

% Solids : **55 ± 1**
Viscosity @ 30°C (Poise) : **07-09**

FEATURES: High Green bond and strong bond

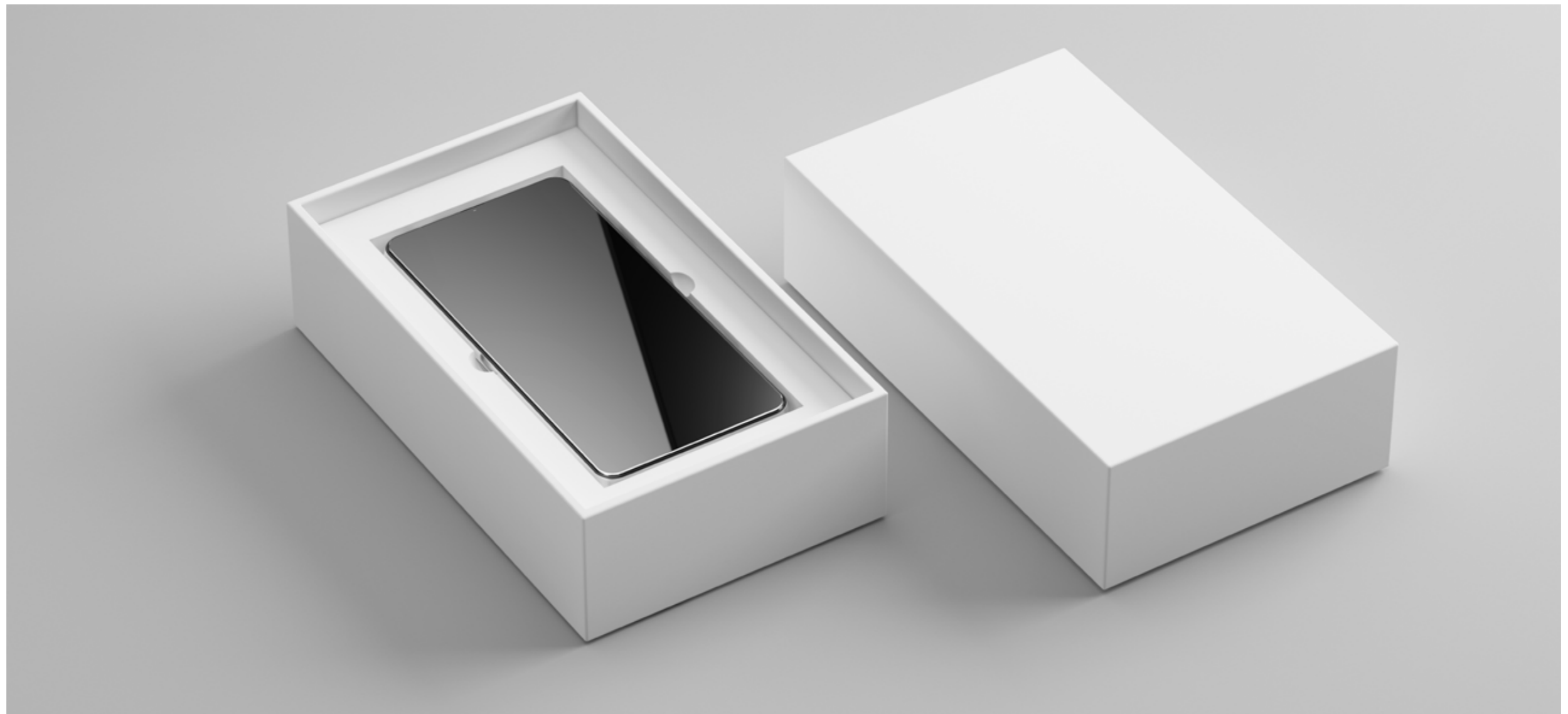
APPLICATION: Nozzle grade for tray fixation in Rigid box construction

FEVICOL HMSR 605

Softening point : **102.5 ± 5°C**
Melt Viscosity @ 150°C (cps) : **17500-30000**

FEATURES: Excellent instant bond for difficult surfaces for inner tray

APPLICATION: PSHMA for Tray fixation and non - porous surfaces





SUSTAINABLE PAPER CONVERTING APPLICATIONS

We offer range of adhesive solutions for various Sustainable applications like Paper bags, E Commerce packaging material, Paper Honey comb, Paper Pallets, Paper cup making, Paper Straw making etc.

PIDIVYL 3110

% Solids : **49 ± 1**
Viscosity @ 30 °C (Poise) : **32-42**

FEATURES: Fast drying product, Tough polymer with High Bond strength

APPLICATION: Leg making and Fixation for Paper Pallets, Honeycomb making and lamination

PIDIVYL AG 99

% Solids : **32 ± 2**
Viscosity @ 30 °C (Poise) : **175-250**

FEATURES: Moderate drying time, Tough polymer with High Bond strength

APPLICATION: Economical product for Leg making and fixation for Paper Pallets

PIDIVYL FS 45

% Solids : **34 ± 2**
Viscosity @ 30 °C (Poise) : **10-20**

FEATURES: High Bond strength, Smooth machinability

APPLICATION: Honeycomb lamination

PIDIVYL SRF

% Solids : **34.5 ± 2.5**
Viscosity @ 30 °C (Poise) : **105-145**

FEATURES: Good machinability, Good Stiffness of paper straws. Resistant to Fruit juices and beverages

APPLICATION: Paper Straw Making

FEVICOL CPW

% Solids : **157 ± 2**
Viscosity @ 30 °C (Poise) : **25-40**

FEATURES: High green bond for faster operations. High Heat Resistance suited for hot beverage

APPLICATION: Making of Ripple cups

FEVICOL SA 851 HT

Softening Point : **105 ± 5 °C**
Melt Viscosity @ 170 °C (cps) : **1500-2300**

FEATURES: High green bond for faster operations. High Heat Resistance suited for hot beverages

APPLICATION: Hotmelt Adhesive for Side seaming of Rippled cup sleeve / Wrap

We also offer Fevicol HP 002, Fevicol SA 7505 M and other products for above applications

ADDITIONAL PAPER CONVERTING APPLICATIONS

With a wide range of products in both Hotmelt and Water based adhesives, we also cater to many specific Paper Converting applications like

- Ice cream Sleeve making and Lamination
- Wad making and Wad gluing
- Paper Core and Cone making
- Envelopes - Making, Remoistenable and Peel & Seal applications, and many more





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