

TAILORED

CHEMICAL PRODUCTS, INC.

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PACKAGING HOT MELTS

HOT MELT ADHESIVES

Tailored Chemical Products, founded in 1977, has manufactured high-quality hot melt adhesives for decades. Packaging hot melts are part of our core competency. We have the capabilities to manufacture hot melts in pellets, chubs, and drums with a number of different packaging options available. If one of our current offerings is not perfectly suited for your application, we are happy to “tailor” one to your needs.

EVA

Our Ethylene-Vinyl Acetate (EVA) line offers versatile products that can be formulated to meet a wide range of applications. We can tailor these adhesives to vary the viscosity and control the set time as well as the open time. EVAs are widely used in general packaging, case and carton sealing, filter manufacturing, and other product assembly applications.

METALLOCENE mPE & mPP

Metallocene adhesives are a relatively new innovation in adhesives. We offer a full line of Metallocene adhesives that can eliminate many common adhesive problems such as charring, plugged nozzles and filters, odor, and stringing. In addition, these formulations, through their lower density and aggressive bond nature, can greatly reduce the amount of adhesive you use per box and significantly reduce your total cost in use.

COST PER PACKAGE OPTIMIZATION PROGRAM

Tailored Chemical Products utilizes a Cost Per Package Optimization Program as a measurement tool to quantify what it costs a manufacturer in adhesive to make a package. The Cost Per Package Optimization Program allows customers to realize their total adhesive spend, while enhancing the overall package quality and optimizing line efficiency. This program encompasses 2 major steps:

Initiate line audit with current adhesive and settings to quantify adhesive costs and areas for improvement:

- Collecting current adhesive volume by weight
- Bead width and length for each box run
- Recording equipment settings and conditions
- Record and photograph fiber tear information
- Input data into hot melt cost calculator to determine current costs

Conduct an adhesive trial with Tailored hot melt technologies:

- A trial or setup date and time are agreed upon
- Tailored Chemical Product’s personnel assist in purging and cleaning of the hot melt tanks.
- New Tailored Chemical Products technology is implemented into the system.
- The Tailored Chemical technology is run using all current line settings, and a line audit is conducted.
- Adhesive line is optimized to represent best setting with new technology.
- New gram weights are recorded and implemented into hot melt cost calculator to reveal true adhesive savings.

Once the optimization solution is implemented, the value is maintained throughout the relationship by:

- Regularly scheduled line audits
- Ongoing training and communication with the packaging teams
- Use of established line cards displaying correct hot melt unit settings



PACKAGING HOT MELTS

| Product Name | Key Feature | Application | Service Temperature Range | Specific Gravity | Molten Gardner Color | Viscosity at Application Temperature | Application Range |
|------------------------------------|-------------------------|---|---------------------------|------------------|----------------------|--------------------------------------|-------------------|
| Low Application Temperature | | | | | | | |
| Permalock® 2010 | Freezer grade | EVA based low temperature Hot melt for case and carton sealing and case erecting | -10°F to 120°F | 0.98 | 4-6 | 825 cP at 275°F | 250 to 275 °F |
| Permalock® 2010 HT | Higher heat resistance | Low temp problem solver. Excellent adhesion and higher temperature resistance | 20°F to 140°F | 0.98 | 5-7 | 875 cP at 275°F | 250 to 275 °F |
| EVA | | | | | | | |
| Permalock® 1056 | Economical EVA hot melt | General purpose EVA Hot melt | 40°F to 130°F | 0.99 | 3-7 | 1025 cP at 350°F | 325 to 375 °F |
| Permalock® 1061 | Workhorse EVA | General purpose EVA Hot melt, improved low temperature resistance, fast set speed | 0°F to 140°F | 0.98 | 5-9 | 800 cP at 350°F | 325 to 375 °F |
| Permalock® 1066 | Slowest setting | Glue stick replacement, applications needing a long open time, POP displays, optically clear | 20°F to 130°F | 0.97 | 2-5 | 2550 cP at 350°F | 325 to 390 °F |
| Permalock® 1067 | Slow set | Slow setting product, robust sticker, long open time, great on wax and other coatings | 0°F to 130°F | 0.98 | 3-6 | 2675 cP at 350°F | 325 to 390 °F |
| Permalock® 1068 | Hot filled | Great adhesion, fast set speed, overfilled cases, extremely robust | 30°F to 150°F | 1.00 | 8-9 | 1075 cP at 350°F | 325 to 375 °F |
| Permalock® 1071 | Wax board technology | Great adhesion with a medium open time, suitable for wax coated and impregnated board | -10°F to 120°F | 0.98 | 3-6 | 1500 cP at 350°F | 350 to 375 °F |
| Permalock® 1073 | Freezer grade | General purpose packaging adhesive suitable for freezer grade applications | -40°F to 120°F | 0.98 | 5-9 | 1100 cP at 350°F | 325 to 375 °F |
| Metallocene | | | | | | | |
| Permaclear® 1302 | Economical Metallocene | Case sealing and erecting, good mileage and pot stability, value formulated Metallocene polymer | -20°F to 140°F | 0.95 | 1-2 | 975 cP at 350°F | 325 to 375 °F |
| Permaclear® 1304 | Workhorse Metallocene | Versatile product with wide temperature range, freezer capable | -40°F to 145F | 0.93 | 1-2 | 1075 cP at 350°F | 325 to 375 °F |
| Permaclear® 1306 | Problem solver | High performance Metallocene for difficult to bond surfaces, freezer capable | -40°F to 150F | 0.96 | 1-2 | 950 cP at 350°F | 325 to 375 °F |