



WISDOM ADHESIVES TECHNICAL BULLETIN POLYTAK™ HOT MELT ADHESIVES

As part of Wisdom Adhesives overall strategic plan to continue on it's path as the leading customer focused adhesive supplier in the industry, Wisdom Adhesives announces the introduction of a new & improved PolyTak™ Hot Melt adhesive technology for the Packaging Industry. Key features of the product line are listed below:

- PolyTak adhesives offer excellent adhesion properties.
- PolyTak adhesives offer excellent thermal & pot-stability – tops in adhesive industry.
- Clear / White in color.
- PolyTak adhesives offer increased mileage due to lower density and higher performance – often resulting in a minimum of a 15% to 25% reduction to the overall cost vs. standard competitive products.
- Eliminate downtime and maintenance costs.
- Eliminate gels and charring.
- Low odor.
- Economical – from an extended mileage, performance and density standpoint. Compares favorably vs. competitive EVA and other olefin based adhesive products. Up to 15%-25% savings!
- Extended runability – excellent pot stability.
- New technology is easy to run and easy to use. Just another reason to convert to Wisdom Adhesives.

Typical Specifications for PolyTak Adhesives

PolyTak PT3000 is a high performance, medium set polyethylene based hot melt for case, carton and tray sealing applications. **PolyTak PT3000** exhibits excellent hot tack which will adhere to difficult surfaces. It also has excellent machinability and offers an approximate 10% less usage rate vs. EVA based products based on density.

VISCOSITY	2100 cps @ 350°F
SOLIDS	100%
SOFTENING POINT	208° F
COLOR	white
CONTAINER/TYPE	pellets
SPEED OF SET	medium
APPLICATION	packaging/paper converting
APPLICATION TEMP	350°F

The information given above is based on our best knowledge, and is believed to be true and accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes. Please read the entire product bulletin along with our conditions of sale, which apply to all goods supplied by us. Wisdom Adhesives assumes no responsibility for the use of these statements, recommendations or suggestions, nor do we intend them as a recommendation for any use, which would infringe any patent or copyright.



PolyTak 6005 is a premium case, carton and tray sealing hot melt adhesive exhibiting excellent adhesion, runnability, and mileage and heat resistance. **PolyTak 6005** offer adhesion to a variety of paper and paperboard stock. Due to its low density, this product increases mileage and reduces wear on application parts.

VISCOSITY	800 cps @ 350° F
SOLIDS	100%
SOFTENING POINT	ca. 228° F
COLOR	opaque white/light yellow
CONTAINER/TYPE	pellets/bag
SPEED OF SET	fast
APPLICATION	Packaging/paper converting
APPLICATION TEMP	typically 325°F- 350°F

PolyTak PT8000 is a medium setting polyethylene hot melt for closing the ends of multiwall paper bags. **PolyTak PT8000** exhibits excellent bonds on a wide variety of board and paper stock. It has excellent heat stability and a high viscosity so that it does not run on a vertical surface.

VISCOSITY	21,000 cps @ 350° F
SOLIDS	100%
SOFTENING POINT	221° F
COLOR	off white
CONTAINER/TYPE	slats/chicklet form
SPEED OF SET	medium
APPLICATION	pinch bottom bag
APPLICATION TEMP	350°F

Note: Specifications are determined using standard laboratory tests based on ASTM or other similar protocol and are subject to the actual product technical data sheet.

The information given above is based on our best knowledge, and is believed it to be true and accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes. Please read the entire product bulletin along with our conditions of sale, which apply to all goods supplied by us. Wisdom Adhesives assumes no responsibility for the use of these statements, recommendations or suggestions, nor do we intend them as a recommendation for any use, which would infringe any patent or copyright.



Comparison of Hot Melt Adhesives

Product	Technology	% Solids	Performance Characteristics	Cost Applied	Estimated Cost Savings
PT-6005 (General Purpose)	PolyTak	100%	Excellent adhesion, Extended Mileage, Very fast set-up, Excellent runability, very low maintenance cost, low odor. Excellent Pot Stability	Up to 15%-25% lower vs. Market Rate Based on Mileage	Up to 25% vs. Market Rate
Competitive Hot Melt Adhesive	Conventional Hot Melt Technology	100%	Good-Excellent adhesion, fast set-up, Moderate-Good runability and clean-up.	Market Rate	Market Rate

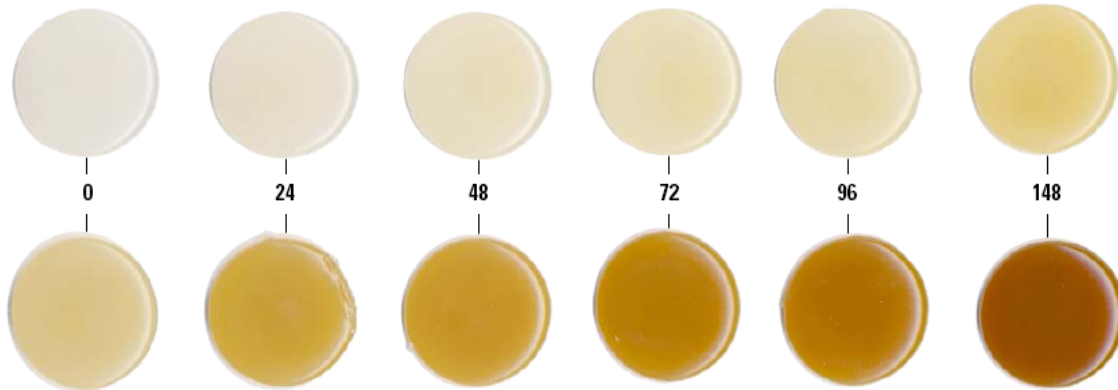
Note: The above results are based on actual field information. Results may vary depending on type of finished product being made and process conditions. Cost comparison may vary depending on actual pricing.

THERMAL STABILITY

Improved Mileage: PolyTak Technology can be expected to save up to 25% advantage in mileage based on superior aggressive adhesion technology (lowering bead size) and lower density not factored above in savings example (0.91 vs. 0.97); both resulting in the use of less adhesive usage vs. EVA based technology.

Better Thermal Pot Stability: Please see the images below; indicating the color change of PolyTak type technology vs. EVA based technology when held for hours/days at application temperatures. This better pot stability will result in longer pot-life for less waste, wider service temperature range, reduced downtime and maintenance costs and adherence to a wider range of surfaces. **No downtime!**

Comparison of PolyTak Hot Melts – Top vs. Conventional Hot Melts - Bottom



HMA formulated with EVA technology - hours at 350°F (177°C)

The information given above is based on our best knowledge, and is believed it to be true and accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes. Please read the entire product bulletin along with our conditions of sale, which apply to all goods supplied by us. Wisdom Adhesives assumes no responsibility for the use of these statements, recommendations or suggestions, nor do we intend them as a recommendation for any use, which would infringe any patent or copyright.