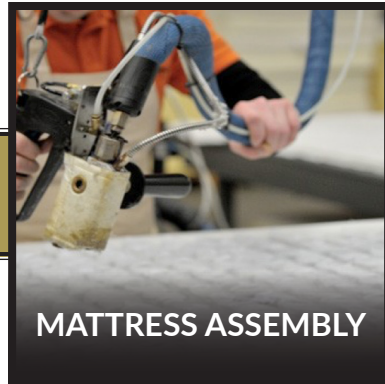


## Koattro PB-1 for Hot Melt Adhesives

The Koattro PB-1 portfolio of products offers a wide viscosity range with excellent wetting capabilities, extended open time, high cohesive strength, good stiffness/impact balance and a very good thermal stability. They are also phthalate-free.

Koattro PB-1 can be used in a variety of Hot Melt Adhesive Applications, such as:



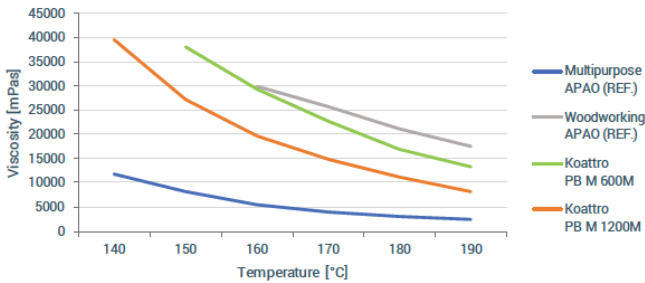
Grade Name	Melt Flow Rate (190°C/2.16kg) (g/10 min.)	Brookfield Viscosity @ 190°C mPa*s	Density (g/cm <sup>3</sup> )	T <sub>g</sub> (via DMTA) °C	T <sub>m1</sub> °C	Flexural Modulus MPA
Koattro PB M 1200M	1200	6900	0.91	-13	82	340
Koattro PB M 2500M	2500	3200	0.91	-13	84	350
Koattro PB M 8510M	45	230600	0.89	-22	81	120
Koattro PB M 8911M	200	46600	0.89	-22	82	100

The information presented in this document was compiled from literature of the resin product portfolio. The information is believed to be accurate. However, Entec Polymers, LLC makes no representation as to its accuracy and assumes no obligation or liability for the information, including without limitation, any advice given, or the results obtained. ENTTECH DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING FITNESS FOR A PARTICULAR PURPOSE. The customer shall use its own independent skill and expertise in the evaluation of the resin product to determine suitability for a particular application and accept the results at its sole risk.

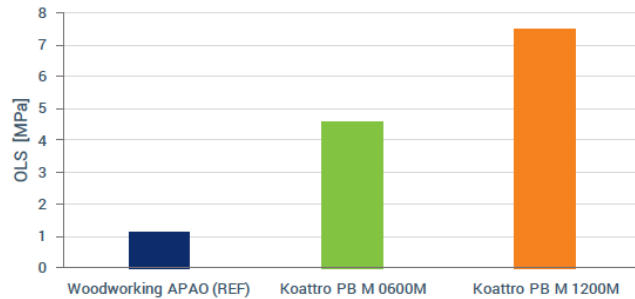
## WOODWORKING

- Low Viscosity
- High Flexibility
- High Thermal Resistance Against Shear Forces (SAFT)
- Environmentally Friendly

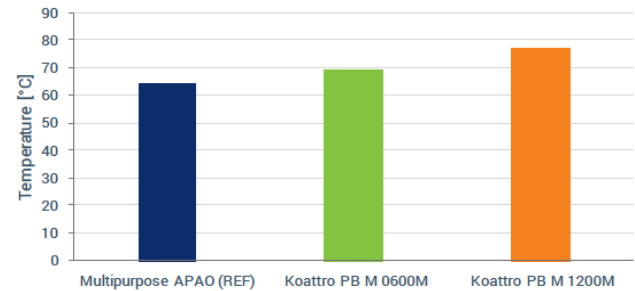
Viscosity @ Shear rate 100s<sup>-1</sup>  
for Multi-purpose / Woodworking HMA formulations



OverLapShear Strength



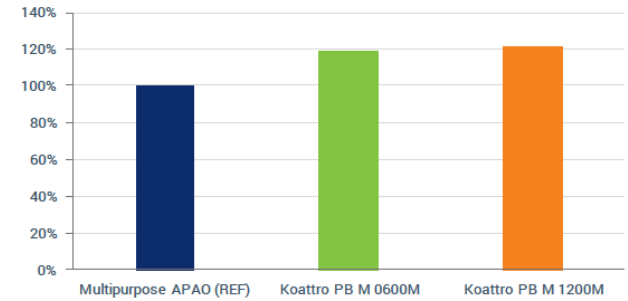
Shear Adhesion Failure Temperature



## MATTRESS ASSEMBLY

- Excellent Green Strength
- Long Open Time
- Manual or Automated Assembly
- Provides Flexibility & Durability

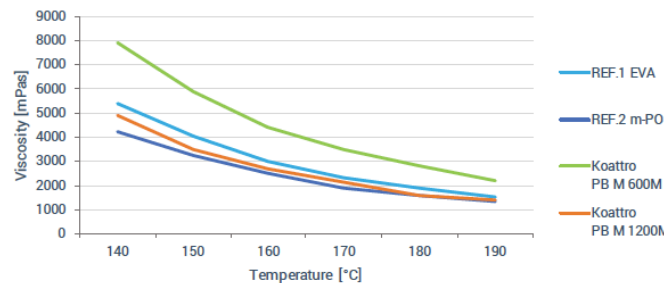
Relative Open Time [%]



## PACKAGING ASSEMBLY

- Excellent Thermal Stability
- Low Viscosity
- Excellent Wetting
- Right Amorphous/Crystalline Composition Balance that may allow for Reduction of Tackifier Content

Viscosity @ Shear rate 100s<sup>-1</sup>  
for Packaging HMA formulations



## NON-WOVEN HYGIENE APPLICATIONS

- Accurate Sprayability
- Excellent Thermal Stability
- Low Odor
- Light Color
- High Tackiness
- Flexible
- Can be Applied at Low Temperature
- High Flow/Elasticity Balance