Product Description & Key Characteristics:

Mayer Colloid MT-COLL 705 PackMaster is a High-performance water-based modified Polyvinyl Acetate (PVAc) dispersion containing plasticizers, specifically engineered for paper bag handle insertion, general paper packaging, and paper cup forming lines. Delivers rapid initial setting, transparent dry film, and excellent mechanical processing properties across both high-speed automated lines and manual/semi-automatic bench operations.

Application Fields, Manual & Automated Line Adaptability:

Application Versatility: Applied smoothly via automated wheel, roller, disc, nozzle applicators, or manually using brushes and spatulas. Ideal for inserting twisted/flat handles into paper carrier bags, bottom and side bag seams, folding cartons, corrugated board packaging, and paper cup side/bottom bonding, ensuring strong, permanent, and flexible fiber-tearing adhesion.
Broad Industrial Scope:
• Paper Carrier Bag Manufacture: Inserting flat/twisted paper handles into carrier bags, bottom forming, and side seams.
• Paper Packaging Lines: Folding carton bonding, corrugated board packaging, envelope, and folder laminations.
• Paper Cup & Cone Lines: Paper cup bottom and side seam bonding, ice-cream cone wrapping, and core/tube winding.
• Manual & Automated Lines: Non-splashing runnability on high-speed automated lines and smooth spreading in manual bench assembly.

Application & Processing Parameters:

Processing Parameter	Specification / Operational Value
Application Method	Automated wheel, roller, disc, nozzle applicators; manual brush, roller, spatula
Line Adaptability	High-speed automated converting lines and manual/semi-automatic assembly
Solids Content	50 ± 1 % (DIN 53189 / ISO 1625 - 105 °C / 2 hrs)
Viscosity (@ 23 °C)	4,000 ± 2,000 mPa·s (Brookfield RV, Spindle 5, 20 rpm)
pH Value	3.5 ± 0.5 (DIN 53785 / ISO 1148 - Acidic PVAc)
Density (@ 23 °C)	Approx. 1.07 g/cm³
Dry Film Appearance	Almost colorless transparent, highly flexible and clear
Food Contact Status	Food contact compliance declaration available upon request
Equipment Recommendations	High-grade stainless steel (DIN EN 10027 - V2A / 1.4301) or inert plastics (Teflon, PP, PA)
Metals to Avoid	Zinc, brass, copper, aluminum (Corrosion risk due to acidic pH)
Packaging Options	30 kg plastic canister, 220 kg plastic drum, and 1000 kg IBC container

Equipment Material & Corrosion Prevention Guidelines (DIN 2304):

• Due to the acidic pH value (3.5 ± 0.5), all machine parts, pumps, and pipes coming into contact with the adhesive must be made of high-grade stainless steel (DIN EN 10027 – V2A / W-No. 1.4301 or superior) or inert plastics (Teflon, PP, PA).
• Avoid direct contact with non-ferrous metals such as zinc, brass, copper, or aluminum due to corrosion risks.
• Do not leave containers completely uncovered during processing to prevent skinning and particle formation.

Typical Physical & Chemical Properties:

Physical Property	Specification Value
Physical State & Appearance	Liquid emulsion; White liquid, dries almost colorless transparent
Odor	Faint characteristic polyvinyl acetate odor (Odorless dry film)
Density (@ 23°C)	1.07 ± 0.02 g/cm³
Viscosity (@ 23°C)	4,000 ± 2,000 mPa·s (Brookfield RV, Spindle 5, 20 rpm)
Solids Content	50 ± 1 % (DIN EN ISO 1625)
pH Value	3.5 ± 0.5 (DIN ISO 1148)
Min Film Formation Temp (MFT)	+ 5 °C
Boiling Point	~ 100 °C (Water base)

Performance & Efficiency Rating:



Storage, Cleaning & Packaging Information:

Storage Conditions: Protect strictly from frost! Store in tightly closed original containers in a cool (+15 °C to +25 °C), dry area away from direct sunlight. Using a mixer prior to and during processing improves application performance. Shelf Life: 12 months.
Packaging Sizes: 30 kg plastic canister, 220 kg plastic drum, and 1000 kg IBC container.
Cleaning: Clean application equipment before curing using warm or cold water. For dried residue, use mechanical cleaning with warm water.
Safety Notice: Water-based, solvent-free, and environmentally benign. For complete safety information, consult the official Safety Data Sheet (SDS).