Application Areas:

Mayer SlipStop (MT-PSA 340) is a state-of-the-art pressure sensitive hot melt adhesive formulated with single-site metallocene polyolefin (mPO) technology. Engineered specifically for high-efficiency industrial processes demanding superior thermal stability, ultra-low odor, and clean peelable adhesion.

1. Anti-Slip (Pallet Stabilization & Non-Skid Coating): Delivers high-friction holding power to lock stacked multiwall kraft bags, polyethylene sacks, corrugated cartons, and shrink-wrapped trays securely onto pallets during transit. Re-positionable & Peelable: Allows individual boxes or sacks to be easily depalletized without tearing packaging surfaces, paper fibers, or barcode graphics (zero fiber-tear); maintains holding power when restacked. Reduces stretch wrap and strapping consumption by 50 – 70%, eliminating pallet shift risks.

2. Hygienic & Medical Construction Bonding: Designed for nonwoven construction, breathable backsheet bonding, and elastic attachment in disposable hygiene lines including baby diapers, sanitary napkins, baby pull-ups, adult incontinence briefs, and medical underpads.

Characteristics & Directions for Use:

Advanced metallocene polymer backbone provides unmatched thermal pot stability; eliminates charring, gel formation, thermal skinning, and nozzle clogging in hot melt tanks. Provides crisp cutoff and string-free delivery across spiral spray, slot coaters, and high-speed bead jetting guns.

High cohesion and well-balanced tack ensure zero oily strike-through or bleed-through onto packaging or delicate hygiene nonwovens. Translucent appearance (Gardner: 2.5) preserves clean packaging aesthetics. Fully compliant with FDA 21 CFR 175.105 (Indirect food contact). Supplied in 1 kg meltable film-wrapped blocks for waste-free, direct drop-in loading.

Processing Parameters & Operating Conditions:

Process Parameter	Specification / Operating Condition
Recommended Operating Temperature	160 – 180 °C (According to nozzle type and line speed)
Application Methods	Spiral Spray, Slot Die, or High-Speed Bead/Dot Jetting
Anti-Slip Coat Weight	0.5 – 2.0 g / dot or bead line (Per box or sack)
Hygiene Construction Coat Weight	2.0 – 5.0 g/m² (Nonwoven spiral spray lamination)
Open Time Window	Permanently Open (Pressure-Sensitive / Re-positionable)
Bonding & Release Behavior	High-Friction Anti-Skid / Non-Tearing Peelable Release
Room & Materials Temperature	+15 °C to +35 °C (Optimal operating plant climate)

Physical & Technical Specifications:

Technical Parameter	Test Method & Specification Value
Chemical Base	Metallocene Polyolefin PSA (mPO Hotmelt)
Color & Appearance	Translucent Solid Block (Gardner Color: 2.5)
Softening Point (ASTM E 28-99)	70 ± 3 °C (Ring & Ball method)
Viscosity @ 160°C (ASTM D 3236)	approx. 6,430 mPa·s (Brookfield Spindle 21)
Viscosity @ 170°C (ASTM D 3236)	approx. 4,700 mPa·s (Brookfield Spindle 21)
Viscosity @ 180°C (ASTM D 3236)	approx. 3,550 mPa·s (Brookfield Spindle 21)
Solids Content	100 % (Solvent-free pure hot melt)
Food Contact Compliance	FDA 21 CFR 175.105 (Indirect Food Contact) Compliant

Performance Ratings & Quality Scores:

Anti-Slip Pallet Stability Resistance	**99 / 100**
Clean Peel Without Surface Fiber-Tear	**98 / 100**
Metallocene Thermal Pot Stability	**99 / 100**
Re-positionable Re-sticking Capability	**97 / 100**
Hygienic Nonwoven Spray Uniformity	**96 / 100**
Low Odor & Low VOC Emission Safety	**98 / 100**

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Mayer Industrial Adhesive Solutions Inc.

Cleaning & Maintenance:

Drain while hot during maintenance intervals. For line flushes, use Mayer Neutral Cleaning Granules (MT-CL 710 series) or technical flushing mineral oil. Purge applicators and nozzles thoroughly before long downtime.

Shelf Life & Storage Conditions:

Store in original closed cartons indoors in a clean, dry area protected from UV and direct sunlight between +5 °C and +35 °C. Prevent moisture condensation. Shelf life is 24 months from manufacturing date. Rotate inventory using First-In, First-Out (FIFO) procedures.

Packaging & Delivery Form:

1,000 g (1 kg) meltable film-wrapped blocks in 20 kg corrugated cartons (54 boxes / 1,080 kg per pallet).

Important Remarks & Legal Disclaimer:

Anti-Slip Operation Guide: Adjust dot/bead geometry and coat weight according to packaging substrate (multiwall kraft paper, glossy cartons, or PE film). Optimize application for maximum horizontal shear holding with clean, vertical peel release.

Hygiene & Medical Manufacturing: Product is solvent-free, hypoallergenic, and odorless. Maintain calibrated atomizing air pressure and nozzle distances on delicate nonwoven webs.

Mayer Adhesive Engineering & Quality Standards:

Quality Assurance: Produced under ISO 9001:2015, ISO 14001:2015, GB/T 19001, and GB/T 24001 certified manufacturing with rigorous batch-wise viscosity validation.

Food & Hygiene Regulatory: Meets FDA 21 CFR 175.105 indirect food contact regulations and hygiene disposable safety guidelines.

Technical Field Service: On-site nozzle positioning, coat weight verification, and pallet tilt table friction testing support.

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