PUR Hot Melt Adhesives Selection Guide

This selection guide provides a general framework for choosing PUR hot melt adhesive systems based on application type, substrates, and processing requirements. It is intended as a technical reference for industrial users.

1. Selection Logic

PUR hot melt adhesive selection should be based on process conditions, substrate combination, and performance requirements rather than a single property.

Key decision factors:
- Coating / lamination process
- Substrate type and surface characteristics
- Required open time and green strength
- Heat resistance and flexibility requirements

2. Application-Based Selection Overview

Application Area	Recommended PUR Characteristics	Typical Processes
Textile Lamination	Soft bond line, good wash durability	Gravure / Roller
Home Textiles	Stable bonding, aging resistance	Gravure / Roller
Intimate Apparel	Low-temperature, high flexibility	Gravure / Press
Automotive Interiors	High heat resistance, dimensional stability	Extrusion / Gravure
Flexible Foams	High green strength, elastic recovery	Gravure / Roller
Nonwovens	Low coating weight, breathability retention	Gravure
Leather & Synthetic Leather	Controlled penetration, flex resistance	Gravure / Roller
Flexible Packaging	Uniform film, media resistance	Extrusion
Electronics	Dimensional stability, clean application	Slot Die / Precision Coating

3. Process-Oriented Guidance

Gravure Coating: Suitable for soft and flexible PUR systems with controlled coating weight.
Extrusion Coating: Requires melt-stable PUR systems with consistent viscosity.
Slot Die Coating: Requires highly stable and clean-melting PUR formulations.
Press Lamination: Requires balanced open time and green strength.

4. Customization & Optimization

PUR hot melt adhesives can be customized to match specific substrates, equipment, and processing windows. Final selection should be validated through line trials.