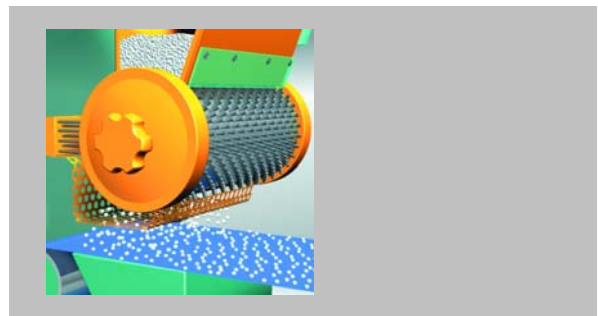


VESTAMELT®

Thermoplastic Copolyamide Hotmelt Adhesives

- **Powder Scattering**



Powder Scattering Process

The simplest and oldest industrial process for manufacturing fusible interlinings consists of scattering the thermoplastic adhesive powder onto the lining substrate. Today the scattering process is used mainly to manufacture shirt collar interlinings and industrial textiles.

Process

In the oldest design of industrial scattering machines, the powder falls from the supply hopper through a slit and onto an oblique vibrating conveyor, which uniformly distributes the powder to be scattered. Advanced units use a hopper mounted over a transfer roller. An oscillating brush brushes off the powder carried in the wells (hatching grooves, card fillets, metal pins) of the transfer roller. For this reason, the powders used may not have too high a flowability to ensure that the powder will stick to the roller until it is brushed off. The powder then falls through one or two oscillating screens onto the web of lining material, which is then fed through a sintering tunnel with the least vibration possible. There it is sintered on the surface by hot air or infrared radiation.

Applications

The coating width of scattering systems ranges from 0.3 to 5 m. If the machine parameters are optimally matched to the powder used, it is possible to attain coat weights of 10 to 200 g/m². This corresponds to production rates of 10 to 30 m/min. The scattering process is primarily used for industrial textiles that require large quantities applied, such as thermoformable carpeting for the automotive industry.

VESTAMELT® Copolyamides

| VESTAMELT® | Properties, Suitability |
|---------------------|--|
| 253-P2050 | High resistance to temperature, low fogging rates, good adhesion, modified for special scattering properties for clothing: front fusing and uniforms for industrial textiles: car interiors |
| 350-P3 353-P4 | Good resistance to temperature, multi-purpose grade for industrial textiles and garment industry, grade 353 modified for special scattering properties |
| 450-P3 | Low melting point, good resistance to strike back, low fusing temperature, good resistance to hydrolysis, wide application potential |
| 730-P2050 733-P4 | Low melting point, low melt viscosity, wide application potential, e.g. industrial textiles, upholstery, shoulder pads, metal bonding (aluminum), grade 733 modified for special scattering properties |
| 750-P3 | Low melting point, good resistance to strike back, good adhesion to face materials that are difficult to fuse, good resistance to washing and dry cleaning |

Particle sizes:

P2050 = 200 to 500 µm,

P3 = 200 to 300 µm,

P4 = 300 to 500 µm

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