AL-Bounce Adhesion - Airlaid Process Fibers

ES FIBERVISIONS has made a major development within fibers for airlaid nonwovens manufacturing: bicomponent fibers with the broadest possible processing window. The fiber is named AL-Bounce Adhesion.

The bicomponent fiber consists of a core of polyester material and a sheath of polyethylene material.

This fiber is based on our longlasting co-operation with the airlaid industry. *ES FIBERVISIONS* and specific customers engaged in a development to boost productivity of the airlaid industry. It should simply be easier to manufacture airlaid thermally bonded nonwovens and thus pave the way for productivity gains, broader customer acceptance and positive environmental impacts.

The *ES FIBERVISIONS* AL-Bounce Adhesion fiber has significant advantages:

- The difference in melting temperatures between the two polymers makes it easier and uncomplicated to reach a good bonding and product strength of the airlaid paper
- The polyester element of the bicomponent fiber ensures an excellent bulkiness and resilience and gives outstanding liquid acquisition performance in e.g. absorbent layers for sanitary napkins and panty shields
- The famous "ES-softness"
- The fibers are delivered with a guarantee to give customer-made performance. In co-operation with the customer the fibers' dtex, opening degree and crimp level are designed to ensure optimal production flow.

Airlaid fabrics based on AL-Bounce Adhesion gives high heatsealing values, because the polyester core remains intact even after heatsealing process and provides high tensile strength to the sealed part.

The AL-Bounce Adhesion is a good extention to *ES FIBERVISIONS'* Airlaid fibers, including:

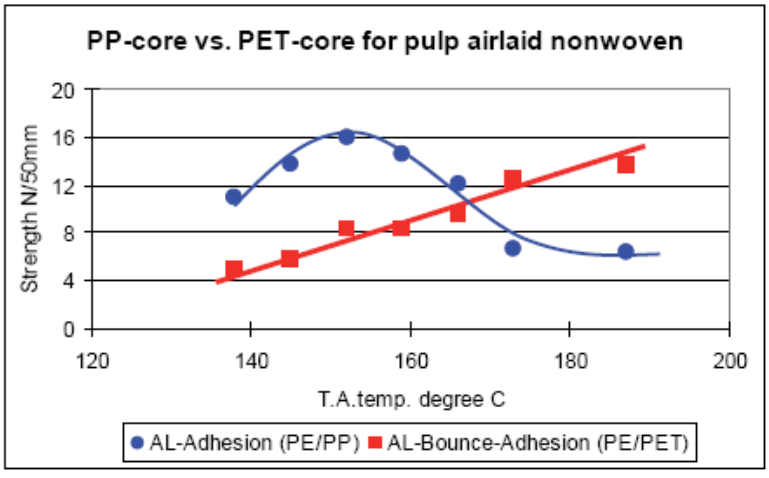
- AL-Adhesion: the major feature being an excellent bonding strength enhanced through the additivation of the polyethylene layers.
- AL-Lowmelt, which allows bonding at very low temperatures.

AL-Bounce Fiber Properties (typical values)

Dtex:	2.0 - 6.7 dtex
Density:	1.155 g/cm^3
Tensile strength:	1.0 - 3.5 cN/dtex
Elongation:	40-100%
Fiber length:	
- for airlaid	3, 4, 6, 12 mm
Crimp frequency:	50-90/10 cm
Spin finish:	0.2-0.5%
Melting point:	
• of polyethylene sheath	130°C
• of polyester core	252-253°C

Polyolefin fibers consist of 99% carbon and hydrogen. The remaining 1% consist of water and applied spin finish. The fiber bales are protected with polyolefin foil and closed with polyester straps. The product and the packaging materials are suitable for recycling and combustion. Inhouse waste should be kept clean to facilitate direct recycling. In disposal of any waste, be certain all applicable regulations are met.
For further information contact your ES FIBERVISIONS representative.

Figure: *The very Broad Window of AL-Bounce fibers*



(Internal Test Method) Typical values were obtained at our Fiber Technical Center: 80gsm / Bico:20% & Pulp: 80% / Specific Volume: 60cm³/g

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