

Extensible Nonwovens

Problem Statement:

Mothers want baby diapers that fit! As a result, baby diaper manufacturers asked for nonwovens that have stretch properties to be used as a soft covering for the elastic diaper components that deliver better fit. The key nonwoven property requirements were high elongation and relatively low basis weight. In addition, the nonwoven fabric needed enough strength to maintain its integrity through the ring rolling process.

Approach:

We utilized our broad nonwoven technology capability to develop a family of extensible fabrics. Our carded thermal bond technology and special extensible fibers were used to create a very soft extensible fabric for premium applications. Our spunbond technology and polymer chemistry expertise were combined to deliver a strong extensible fabric at relatively low basis weights. Our bicomponent spunbond technology was used to make a low basis weight, extensible fabrics with a “silky” smooth hand feel.

Solution:

Today, Fitesa offers a broad range of extensible fabrics with different levels of extensibility, strength, and softness to fit a range of baby diaper applications from private label to premium tiers. These are available in a range of basis weights and include:

- Fitesa Carded Thermal Bond HEC and VHEC fabrics
- Fitesa Spunbond HES fabrics
- Fitesa Spunbond Bico fabrics