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IMPORTANCE OF ZERO CREEP ELASTIC ATTACHMENT HOT-MELT ADHESIVE IN DISPOSABLE HYGIENE ARTICLES

Elastic attachment adhesives are used for adhering elastic components in the diapers mainly leg and cuff elastics on polyethylene or nonwoven surfaces to prevent the urine leakage out of core area as well as providing the curved shape of the product. They are in the class of high performance adhesives providing the unique properties in terms of durability and safety as well as mandatory in the hygiene adhesive product portfolio for offering winning solutions to the market. Elastic materials in all diaper design play a critical role in both fit and leakage control. Creep means that movement of elastic material under stress and elastic attachment adhesive should hold the elastic strands so strong and not allowing them to slip or loose. 1 of 3 complaint of diapers in e-commerce ratings belongs to leakage problem and the only solution to overcome this issue is to use zero-creep elastic attachment adhesive.

Zero Creep Elastic Attachment Adhesive gives diaper superior safety comparing to the traditional elastic attachment adhesive which allows at least >10% creep due to the limitation in application temperature capability and high speed of new diaper machines. The reason is that creep and application temperature are in inverse proportion with each other. The innovation behind Zero Creep Elastic attachment adhesive is a unique adhesive which can be applied in very low temperatures and can be used smoothly by ultra-high speed machines. So, the adhesive ensures no-leakage, best fit of diaper during long hour usages, reducing total system carbon footprint by reducing the application temperature, reducing energy consumption of diaper producers and increase the output/time.