

# TERMINOLOGY

## FOR VINYL-COATED FABRICS



**Abrasion Resistance:** Wearability of a vinyl-coated fabric (or any product) to resist surface damage from rubbing or chafing.

**Adhesion:** Bonding strength between the backing and vinyl surface.

**Backing:** Any product used as a carrier to support a vinyl surface adding overall product strength, including fabric, non-woven, paper, etc.

**Calendar:** Dry compound manufacturing method used to apply a controlled coating of vinyl gum to produce a film. Compound is heated and drawn through a series of high-temperature polished rolls to combine all chemicals into the necessary thickness. It can then be laminated to any backing or remain as a film, if desired.

**Cast Coating:** Liquid (plastisol) manufacturing process for expanded or non-expanded vinyls using casting release paper to carry product during production process. This manufacturing method allows greater accuracy in total product quality vs. calendaring vinyl production procedure.

**Expanded Vinyl:** Vinyl-coated fabric construction consisting of 3 major parts - backing, foam (center section), and vinyl skin surface. During production, heat is utilized to “cook” the vinyl, making the middle foam layer “expand”, thus creating the term “expanded vinyl”. Filler: Additive (calcium carbonate) generally used to increase the weight of a vinyl product in lieu of adding other raw materials. (Fillers are also referred to as “loading agents”)

**Film:** Solid or flexible vinyl (at any thickness) without a backing.

**Flat Vinyl:** Another name for non-expanded vinyl.

**Fogging:** Phenomenon created when a vinyl-coated fabric or film is subjected to high temperatures in confined areas. Result is plasticizer exudation (common to automobile interiors).

**Gauge:** Total thickness of a vinyl product (including backing, if present) usually measured in .001”.

**Grain (Embossing):** Mechanically textured surface of vinyl.

**Laminated:** Bonding of film and fabric usually with heat and adhesive.

**Mildew Proof:** Treatments given to vinyl compound and/or a backing to retard the growth of a variety of fungi that ultimately result in mildew growth.

**Non-expanded Vinyl:** Vinyl-coated product manufactured without a foam layer between the skin surface and backing.

**Pigment:** Compound used to provide color.

**Plasticizer:** Additive used to make basic, raw material, polyvinyl chloride (PVC) soft and flexible.

**Print:** Application of tinted inks used to change the surface appearance of a solid color. Prints are used to give vinyl fabrics a variety of surface looks, including florals, leathers, etc.

**PVC:** Common name for polyvinyl chloride resin, the basic raw material in all vinyls.

**Slip Finish:** Same as top coat.

**Skin Thickness:** Overall thickness of the wear layer surface (solid vinyl). Usually measured in .001”.

**Strike-through:** Manufacturing defect that allows texture from backing to show on surface area.

**Tear-strength:** Ability of vinyl fabric to resist tearing. Measured horizontally and vertically in pounds/inch.

**Top Coat:** Thin layer of clear or tinted vinyl used on wear surface to protect total product from abrasion. Top coat also provides desired degree of gloss.

**Unsupported Vinyl:** Any vinyl film or expanded vinyl produced without a backing.

**UV Stabilized Pigments:** Special pigments formulated to resist fading or color change resulting from long-term exposure to the sun (ultraviolet rays).