Interest in vitamin D has increased greatly in recent years because of the multiple health benefits by sun contact of the body. A number of studies have been conducted about effects of vitamin D for decreasing several deadly cancer risks including colon, breast, pancreatic and ovarian cancers and protection against several autoimmune diseases, internal cancers, respiratory diseases, hypertension. More than 90% of the vitamin D is derived from sun exposure. Occasional exposure of your face and hands to sunlight is insufficient to move vitamin D levels to the healthy range. Clothing is one of the most important factors to get the adequate dose. It is thought that modifying the structure of fabric and garment design and using a photochromic product label as a control unit may help absorbing the sufficient UV-B rays and synthesis of vitamin D on skin. Besides determination of optimum porosity parameters for sufficient sun benefit, requirements about comfort will also be considered.