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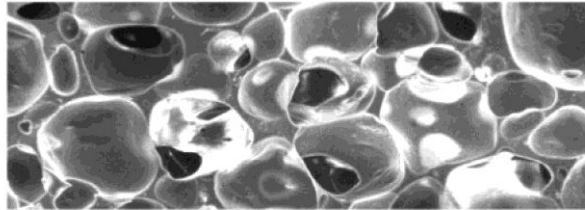
TEXTILE TECHNOLOGIES

Open or Closed Cell Carpet Backing?

Marketers of polyvinyl chloride (PVC) cushion products frequently promote the attributes of closed cell configuration, as contrasted with the open cell polyurethane chemistry of the BioCel™ and EnviroCel™ carpet backing. Attributes of closed cell products are alleged to include greater resistance to moisture and improved resilience.

Importantly, in high performance commercial carpet products, the polymer pre-coat applied directly to the primary carpet backing or with the cushion layer, provide the major moisture resistant characteristics. The polyurethane pre-coat component of BioCel and EnviroCel carpet backing impedes liquid penetration to the subfloor.

Open & Closed Cell in PVC



PVC CUSHION

Although polyvinyl chloride (PVC) foam is termed a closed cell product, microphotography of untrafficked PVC cushion reveals both open cells and open channels between the cells.

Open Cell in BioCel / EnviroCel Carpet Backing

Microphotography of BioCel carpet backing untrafficked shows the geometric uniformity of its microcellular construction. This highly resilient cell wall network is genetically termed an open cell cushion.

Additional Performance Characteristics to Consider

BioCel and EnviroCel carpet backings demonstrate superior resistance to spills, moisture, and wet cleaning procedures, reducing the likelihood of mold, mildew, and product deterioration.

BioCel and EnviroCel carpet backings remain flexible over a wider range of temperature than PVC, reducing its susceptibility to installation problems due to stiffness changes.

Carpets backed with BioCel or EnviroCel demonstrate excellent smoke ratings, in accordance with the NBS Smoke Chamber Test ASTM E-662, commonly achieving a smoke density of < 450 (flaming mode).

Products with BioCel or EnviroCel carpet backing are available in broadloom, offering unmatched choices in installation, handling, and removal economies.

For additional information:

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Published 987505.04082