

Signature
CRYPTON® CARPET



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To: Sales Team
From: John McIntosh
CC:
Date: 11-11-09
Re: Open Cell or Closed Cell

White Paper

Marketers of polyvinyl chloride (PVC) products frequently promote the attributes of closed cell configuration, as contrasted with the open cell polyurethane chemistry found in Signature Crypton Carpet BioCel Laminate 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 precoat applied directly to the primary carpet backing or with the cushion layer, provide the major moisture resistant characteristics. The polyurethane precoat component of BioCel carpet backing impedes liquid penetration to the subfloor.

PVC

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

BioCel Laminate

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

BioCel Laminate carpet backing demonstrates superior resistance to spills, moisture, and wet cleaning procedures, reducing the likelihood of mold, mildew, and product deterioration.

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