

Black Diamond™ Visco

Product Description

Short Description

CoolFlow™ open-cell visco infused with Black Diamond™ crystalline carbon particles

Benefits/Value

Exceptional thermal conductivity, compression-conduction properties, supreme durability

Target Applications

Mattress toppers and surface layers, molded pillows, quilting foam, other comfort products



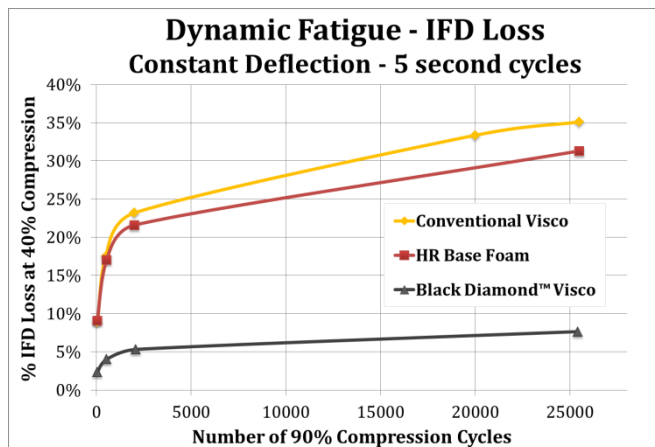
Open-Cell Black Diamond™ Visco

Enhanced Thermal Conductivity

Black Diamond™ visco combines the breathability and durability of CoolFlow™ open-cell visco with the conductivity of a unique, highly conductive crystalline carbon additive, resulting in foam with remarkable heat flow and a distinctively luxurious, sparkling appearance. The open-cell polymer structure enhances air flow through the foam by 95% to produce breathable and virtually odorless foam with superior convective heat flow. The hyper-conductive Black Diamond™ particles, which are able to rapidly conduct heat through their ordered, crystalline carbon lattice structure, dramatically improve the transfer of excess heat away from the body when the foam is compressed.

Compression-Conduction Technology

Black Diamond™ infusion greatly enhances thermal comfort while the foam is compressed, when air flow and convective heat transfer are inhibited. The enhancement of heat movement through compression-conduction is accomplished when individual crystalline carbon particles are pressed closely together during sleep. This occurs especially at deep compression areas such as at the shoulders and hips, where excess heat tends to build up and cause discomfort. At those areas, Black Diamond™ infusion provides extremely conductive pathways for transferring heat toward uncompressed parts of the foam, where it can continuously be liberated through convection for lasting thermal comfort.



True, Durable Visco Properties

Black Diamond™ visco is designed to have true viscoelastic properties without relying on cell tightness to achieve a slow recovery rate. Since the viscoelastic properties are attributed to the structure of the polymer, these properties are retained when the foam undergoes static and dynamic forces. Black Diamond™ CoolFlow™ visco will retain comforting and pressure-relieving properties after many years of use. The open-cell nature also enables the foam to relax more quickly in response to body heat, providing greater mobility, comfort and support.