ePTFE laminated membranes provided by BVA LLC are engineered based filtration fabrics specifically created for critical air pollution control processes. The membrane is designed for filtering particulate from industrial processes such as coal fired boilers, cement kilns, steel furnaces and many other challenging applications. Fabrics with laminated PTFE provide higher collection efficiency, use less energy to clean, operate at lower differential pressures than conventional fabrics and provide resistance to blinding caused by moisture.

**What is ePTFE**

ePTFE or expanded PTFE is a microporous Teflon® “skin” layer laminated to a traditional filter media. Webs of fibrous strands overlap and create small air passages that restrict particulate while allowing air flow through the media.

**Surface vs Depth Filtration**

Conventional fabrics collect dust particles on the surface of the fabric and within the depths of the fabric. Overtime, this causes air flow restrictions and abrasion to the internal surfaces of the fabric leading to higher differential pressure and eventual blinding, reducing filter bag life.

Media with ePTFE captures dust on the surface of the filter. The PTFE works as the primary dust cake, collecting all the particles on the surface. This keeps the dust from penetrating the fabric. Issues with emissions on start-up or immediately following a cleaning cycle are virtually eliminated.