Parker Performance Materials’ TransWeb integrates non-woven mechanical filtration with best in class electrostatic charging processes, to create specialty engineered fabrics with superior performance to solve challenging air filtration problems.

**Meltblown media**
Traditionally, fibrous air filters function by presenting a porous structure with tortuous paths to a flow of air-borne particles, which are captured mechanically within the depth of the fibrous matrix. The extrusion of a variety of meltblown polymers with the capability of producing fine denier meltblown webs from polyester, polypropylene, nylon, polyethylene and PBT are key to the superior performance of TransWeb products.

**Electret media**
TransWeb combines meltblown fibrous matrices with an electrostatic charge characteristic and the resulting “turbocharged” filter has enhanced filtration performance. TransWeb filters have a more open structure compared to traditional filters and therefore present less resistance to the flow of air, while providing a similar filtration efficiency.

Transweb’s unique charge enhancement technology imparts a high-density charge to polymer based non-wovens, which gives them a virtually permanent charge, unaffected by high humidity or long-term storage at high temperatures.

**TransWeb has advantages over traditional mechanical-only filters**
- Filter media fibres can be packed less densely than conventional filter media, providing less resistance to airflow
- TransWeb media provide high and sustained efficiency over the filter lifecycle
- Sub-micron particles are captured efficiently at lower airflow resistance
- Lower pressure drops can lead to lower energy use and lower running costs
- Products utilising TransWeb filters can be made lighter in weight and more compact
- Respiratory filters are easier to breathe through

**Transweb provides outstanding performance in applications such as:**
- Facemasks
- Respirators
- Vacuum cleaners
- Medical applications
- Automobile cabin filters
- Furnace filters
- Heating, ventilation & air conditioning (HVAC)
- Bag house filters
- Paint room filters
- Disk filters
- Specialty wipes