

## Innovative electret filtration products

**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.



### Electret Laminates

To meet the physical demands of pleating, welding and other manufacturing processes, Transweb can be combined with layers of melt blown and other media, through lamination or collation, to solve specific filtration demands with the goal to minimize pressure drop or lower filtration efficiencies.



### 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 air flow 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)
- Ashrae filters
- Bag house filters
- Paint room filters
- Disk filters
- Specialty wipes