



SOLUTIONS FOR PACKAGING & VENTING

MICROFILTRATION AND VENTING SOLUTIONS

Stop container bloating and leakage with aspire packaging vents. Using expanded polytetrafluoroethylene (ePTFE) membrane technology to manage pressure changes, aspire breathable packaging vents prevent bloating, leakage and maintain the integrity of containers and their contents. The aspire packaging vents deliver consistent and effective venting performance in packaging and containers.

Containers used for consumer and industrial products can collapse, become bloated or burst when excessive pressures are encountered during processing, transportation or storage, especially if the pressure difference is not effectively or rapidly equalized. The use of aspire vents allow containers to “breathe” and thereby equalize the pressure within the packaging, preventing distortion and damage. Meanwhile, the product remains safely enclosed and protected in the packaging.

At the core of aspire products is expanded PTFE, which has a three-dimensional web-like structure with billions of microscopic pores. Air and vapor can easily pass through ePTFE while the membrane provides an effective liquid and particulate barrier. The inherent hydrophobic (water-resistant) and non-stick nature of aspire membranes ensure that water-based liquids do not leak out of the container or block the micropores.

ADVANTAGES OF ASPIRE:

- Naturally water repellent (hydrophobic)
- Oleophobic treatment option available for oils, alcohols, etc.
- Prevents leakage
- Provides a high level of airflow, even after liquid contact
- Prevents contamination
- Safe to use with a wide range of chemicals
- Integrates easily into most manufacturing processes
- Excellent chemical resistance

APPLICATIONS:

The aspire packaging vents offer the best combination of liquid penetration resistance and high airflow to manage differential pressure within containers such as:

- **Bottles, vials, boxes and containers**
- **Household and consumer chemical packaging**
- **Industrial chemicals such as peracetic acid, hydrogen peroxide and bleach**
- **Agricultural products**
- **Life science and biotechnological substances**



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ABOUT ASPIRE SOLUTIONS**

SUGGESTED GRADES

Product	Nominal Pore size (µm)	Relative Air Permeability	Air Permeability (ft3/min/ft2@ 125 Pa) (ASTM D737)	Air Permeability (ml/min/cm2@ 125 Pa) (ASTM D737)	Wet Mullen Burst (psi) (ASTM D751)	Oil Repellency Grade (membrane side) (AATCCI18)
QP981T	3.0	High Flow	1.5 - 5	46 - 152	≥ 15	Oil #7
QP965	0.45	Medium Flow	0.2-0.8	6 – 24	≥ 20	Oil #6
QL210	1.0	Medium Flow	0.2 - 0.60	6 - 18	≥ 14.5	Oil #6
QL827	0.45	Medium Flow	0.30 - 0.70	9 - 21	≥ 14.5	Oil #6
QP910	0.45	Low Flow	0.20 - 0.45	6 - 14	≥ 20	Oil #6
QP944U	0.2	Low Flow	0.11 - 0.5	3 - 15	≥ 34	Oil #6

FORMATS

Specializing in custom venting solutions, aspire designs membranes, laminates, and chemistries to meet each customer’s specifications while also offering a range of standard venting products. Membrane vents can be supplied with a reinforced support laminated to one side of the membrane to improve strength during processing and assembly operations. The aspire products can be supplied as roll goods or die cut shapes, which have a self-adhesive layer to ensure easy placement within the container. Alternatively, aspire vents can be applied via ultrasonic or heat welding.

QUALITY PRODUCTS AND PROCESS

Parker Performance Materials takes its reputation for quality and innovation seriously. In addition to advanced membrane technologies, Parker is committed to outstanding customer service, including rapid response times, on-time delivery and technical expertise. Our inventory approach to order fulfilment ensures we meet the dynamic product, and service demands of the packaging industry without sacrificing quality.



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