



## Case Study: GORE® Pressure Vent in a Smartphone

# Speaker Distortion Eliminated Last Minute Before Product Launch

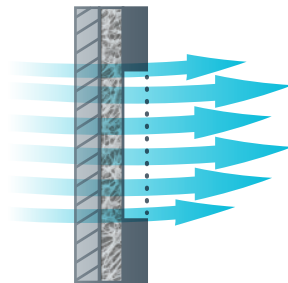
### ? CHALLENGE

Imagine: **Only one month before the big launch of their new smartphone, a Chinese OEM found that the pressure vent installed did not provide adequate airflow.** They know this will cause speaker distortion issues for the end user, damaging the reputation of the company, which in turn would impact device sales drastically unless rectified.

Our client approached Gore for help. Rapid action was required to resolve the issue and minimize disruption.

#### THE VENT: GORE® PRESSURE VENT PE12

The GORE® Pressure Vent product model PE12 is suited for smartphones, two-way radios and scanners. With an average airflow of 10,000 ml/min/cm<sup>2</sup>, the PE12 vent combines consistently high airflow with a IP67 and IP68 rating for shallow immersion.



By tripling airflow, the GORE® Pressure Vent was able to effectively equalize the pressure between the inside and outside of the device to eliminate the distortion.

### 💡 SOLUTION

Our venting experts found the airflow needed to be significantly higher. So, the engineers suggested the GORE® Pressure Vent PE12 to triple the airflow. It equalizes the pressure between the in- and outside of the device to eliminate distortion.

**As a drop-in replacement, the GORE® Pressure Vent PE12 allowed for a quick solution, thereby securing the product launch in time.**

Gore's team created a membrane technology to provide exceptional reliability by a well-refined balance of airflow and water protection.



### ★ RESULTS

**Gore was able to support the client's needs by providing a complete service that immediately identified and solved the root of the problem, quickly sampled the products and ramped up mass production all within one month.**

With our help, the smartphone OEM was able to

- increase performance by tripling vent airflow
- eliminate speaker and receiver distortion
- improve the consumer experience

### Want to know how we did it?

Leading OEMs choose Gore because our products and services enable them to develop differentiated products with low development and supply-chain risk in a fast-paced, highly competitive market.



Visit this link to find out how we helped our customer to succeed in this special case – and how we can do the same for you!

[gore.com/pe12-phone-story](https://gore.com/pe12-phone-story)



# Why Choose GORE® Portable Electronic Vents for Your Electronic Devices?

Leading OEMs have specified over 5 billion GORE® Portable Electronic Vents because they know our products and services can help accelerate their development of innovative and differentiated devices in fast-paced, highly competitive markets.



## PRODUCT AND APPLICATION LEADERSHIP

- Deep expertise in material science and acoustics
- Balancing trade-offs of mobile electronics design



## RELIABLE PERFORMANCE

- Highest standards of quality, performance, and reliability
- Comprehensive understanding of end-use applications



## FAST DEVELOPMENT

- Fast response to customer requests
- Availability of easily integrable designs and prototypes



## SUPPLY SECURITY

- Sufficient availability of products without waiting periods
- High-quality vent supply for over 10 million devices per year



## MATERIAL SCIENCE

- Development of materials with exceptional performance features
- Broad applicability in products for various industries and markets



## GLOBAL SUPPORT

- Agile and robust support for customers worldwide
- In-depth consultation by our sales, engineering, and research experts

## Interested in Testing our Products or Talking to our Experts?

For additional assistance, please contact a Gore representative.

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