



Case Study: GORE® Pressure Vent in a Smartphone

Speaker Distortion Eliminated Last Minute Before Product Launch

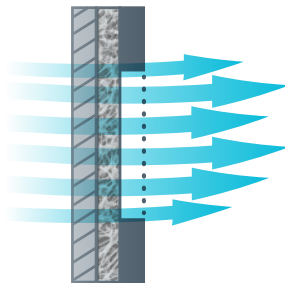
? CHALLENGE

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/cm², 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



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.

INTERNATIONAL CONTACTS

Australia +61 2 9473 6800
 Benelux +49 89 4612 2211
 China +86 21 5172 8299
 France +33 1 5695 6565
 Germany +49 89 4612 2211

India +91 22 6768 7000
 Italy +39 045 6209 240
 Japan +81 3 6746 2570
 Korea +82 2 393 3411
 Mexico +52 81 8288 1283

Scandinavia +46 31 706 7800
 Singapore +65 6733 2882
 South America +55 11 5502 7800
 Spain +34 93 480 6900
 Taiwan +886 2 2173 7799

United Kingdom +44 1506 460123
 USA +1 410 506 7812

W. L. Gore & Associates, Inc

401 Airport Road • Elkton, MD 219221 • USA
 Phone: +1 410 506 7812 (USA) • Toll free: +1 800 523 4673
 Fax: +1 410 506 8749 • Email: portableelectronics@wlgore.com
gore.com/portableelectronics

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