



EXPERTS IN DEVELOPING VERY SMALL PARTS

CUSTOMER
Global designer and manufacturer of cell phones

PART
Tiny blocking filter that allows sound to pass but not dirt and dust

MATERIAL
Woven polyester mesh and 3M 9795B adhesive

APPLICATION
Small filter used in cell phone speaker design

CHALLENGE

The customer needed to develop a blocking filter that would let sound pass but not dirt and dust. Specifically, they required the following:

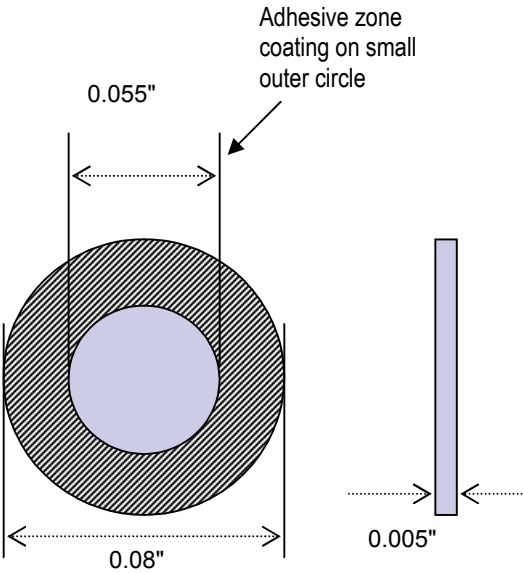
- ◆ The filter could have an inner diameter of only .055" and an outer diameter of .08" while maintaining concentricity and tension.
- ◆ Pressure sensitive adhesive applied only on the small outer ring.
- ◆ The ability to expedite large volumes of production-friendly parts.

SOLUTION

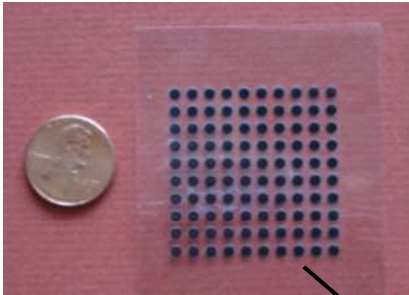
After working closely with the customer's engineering department, Marian offered a specialized process that produced precisely cut filters with a zoned adhesive for easy application.

CUSTOMER BENEFITS

- ◆ Capacity at Marian is unparalleled, and the customer benefited from Marian's ability to develop custom machines and processes for small parts with special requirements.
- ◆ Production efficiencies increased as a result of the easy packaging provided by Marian.



Required filter dimension
(Drawing 18x actual size)



Flexible solutions...
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