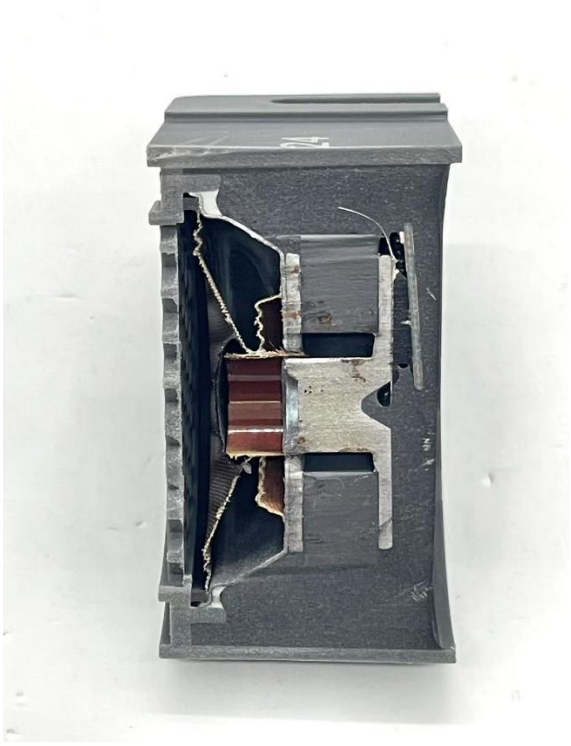
Comparisons of Back Up Alarm with Sand-Mixed and without

Feature	Pure Black Resin Potting (High-Quality Process)	Sand-Mixed Resin Potting (Cost-Reduction Process)
Sealing Performance	☑ Excellent waterproofing and moisture resistance	❌ May form micro-gaps, reducing waterproof effectiveness
Vibration Absorption	☑ Absorbs vibration well, protecting components	❌ Less effective, may shorten component lifespan
Sound Quality	☑ Uniform distribution, stable sound transmission	❌ Uneven material may affect speaker resonance
Durability	☑ High resistance to environmental factors	❌ May develop cracks over time due to different expansion rates
Cost	❌ Higher cost due to full resin usage	☑ Lower cost by reducing resin consumption
Weight	☑ Heavier due to dense resin	❌ Lighter due to less resin usage
Structural Strength	☑ Provides sufficient rigidity	❌ Can improve rigidity but may cause brittleness
Shrinkage Control	❌ Resin may slightly shrink during curing	☑ Sand helps reduce shrinkage deformation
Common Usage	◇ High-quality automotive alarms requiring durability	◇ Cost-sensitive products with lower waterproof requirements
Suitability for IP Testing	☑ More likely to pass IP waterproof tests	❌ May fail due to potential micro-gaps

YC's current production process

-Pure Black Resin Potting (High-Quality Process)



Well-known brand product, purchase from on-line store

-Sand-Mixed Resin Potting (Cost-Reduction Process)