

**Manufacturer of acoustically transparent filters to protect microphones and receivers from harmful contaminants.**

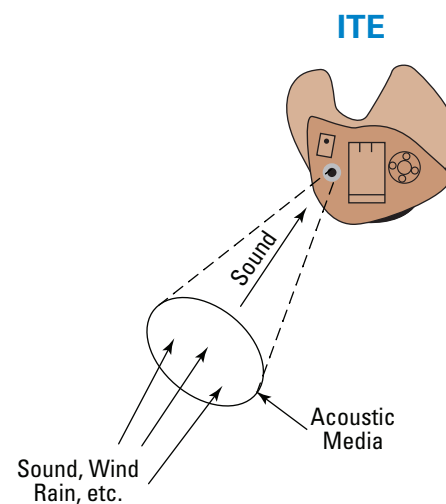
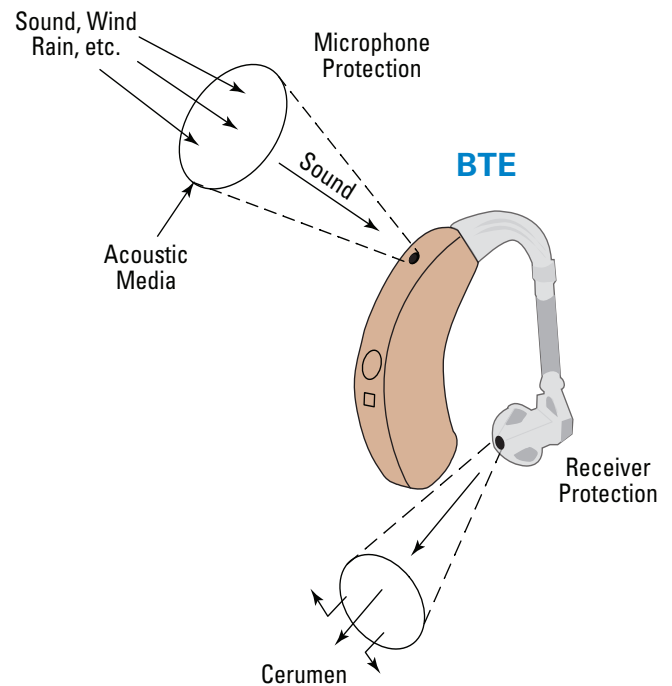
Hearing aid users rely on the device's microphone and receiver as their connection to ambient sound, so it is essential to protect both from contaminants that could impair their effectiveness. Donaldson's acoustically transparent filtration products provide the microphone and receiver with an effective barrier to dirt, dust, hair spray, oils, perspiration, and water.

## APPLICATIONS

- Behind the Ear (BTE)
- In the Ear (ITE)
- Assistive Listening Devices

## CAPABILITIES

- Prevents ingress of dirt, moisture, and other airborne contaminants that could affect circuitry
- Reduces wind noise
- Inhibits ingress of cerumen
- Prevents water ingress during submersion
- Precision die cut and over-moulded products ensure easy and complete device integration
- Product development performed in-house by acoustic engineers using transmission loss test equipment
- Testing to industry standards, such as ISO 10534-2 and ASTM E1050-98



**Donaldson acoustically transparent filters protect microphones and receivers from contaminants.**

# HEARING DEVICE PROTECTION

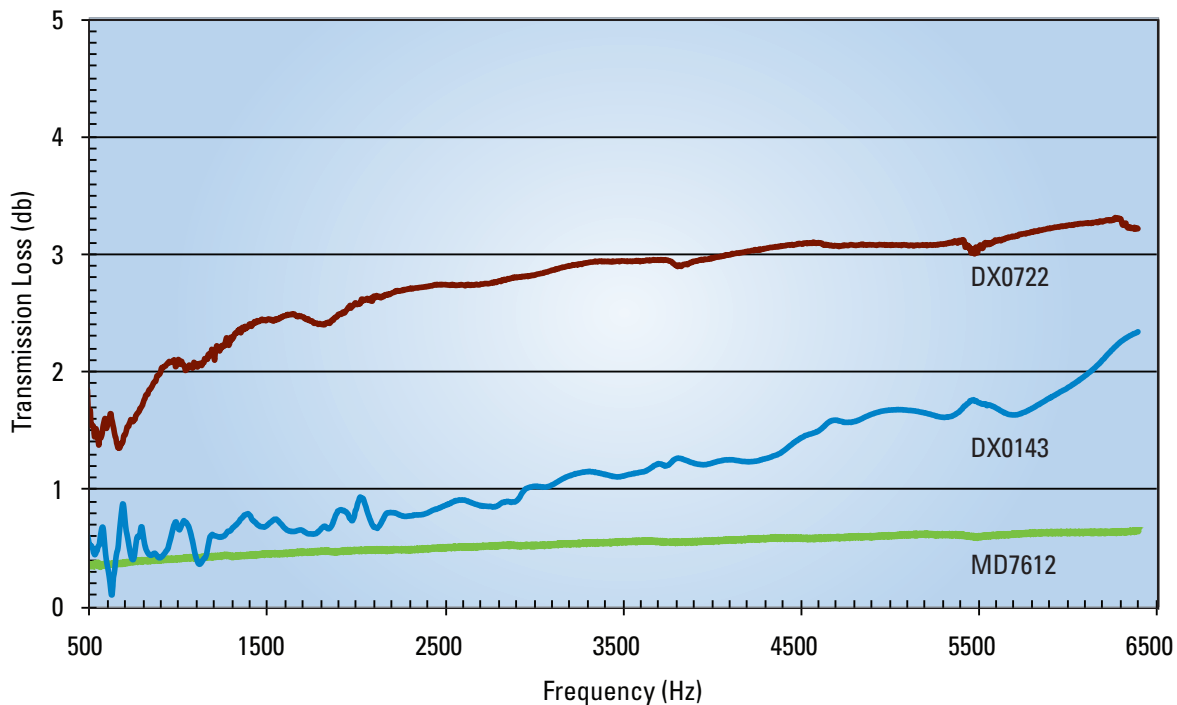
## ACOUSTIC MEDIA CHARACTERISTICS

Property	Units	MD7612	DX0143	DX0722
Material	-	Polyester	ePTFE*	Polyester
Colour	-	White	White	Black
Thickness	mm	0.13	0.02	0.06
Transmission Loss 500-6500 Hz	dB	< 0.8	< 2.5	< 3.4
Airflow @ 12 mbar	l/Hr/cm <sup>2</sup>	11,400	7	1,465
Water Entry Pressure	cm H <sub>2</sub> O	11	1430	20
Oleophobicity Rating	1-8	7	7	7
IP Rating	-	IP44	IP67	IP44

Donaldson acoustic media can be used in BTE, ITE and Assistive Hearing Devices. Other filter materials are also available.

\* Expanded Polytetrafluoroethylene

## ACOUSTIC MEDIA TRANSMISSION LOSS\*



\* Transmission loss based on a 29 mm diameter filter.

Contact us to increase the reliability of your micro-electronics.



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