

Hearing Aid Protection

Product Information - Integrated Venting Solutions

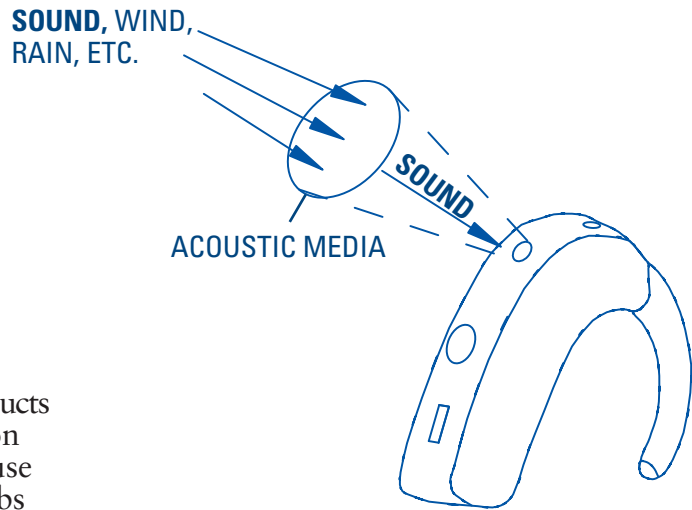
Hearing aid users rely on the device's microphone and receiver as their connection to ambient sound, so it is essential to protect both from contaminants that could impair their effectiveness. Donaldson's acoustically transparent filtration products provide the microphone and receiver with an effective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

Applications

- Behind the Ear (BTE)
- In the Ear (ITE)

Capabilities

- Prevents ingress of dirt, moisture, and other airborne contaminants that could affect circuitry
- Reduces wind noise
- Repels ingress of cerumen
- Precision die cut and over-molded products ensure easy and complete device integration
- Product development performed in-house by acoustic engineers using anechoic labs and analysis equipment



Acoustic Media Characteristics

Property	Units	DX0039	MD7086	MD7612
Matrix	-	ePTFE/PET	PA	PET
Thickness	mm	0.02	0.2	0.13
Transmission Loss	dB	<4.0	<0.5	<0.1
Airflow @1kPa	l/sec/m ²	24.5	670	2640
Water Entry Pressure	cm H ₂ O	1530	15	2.5

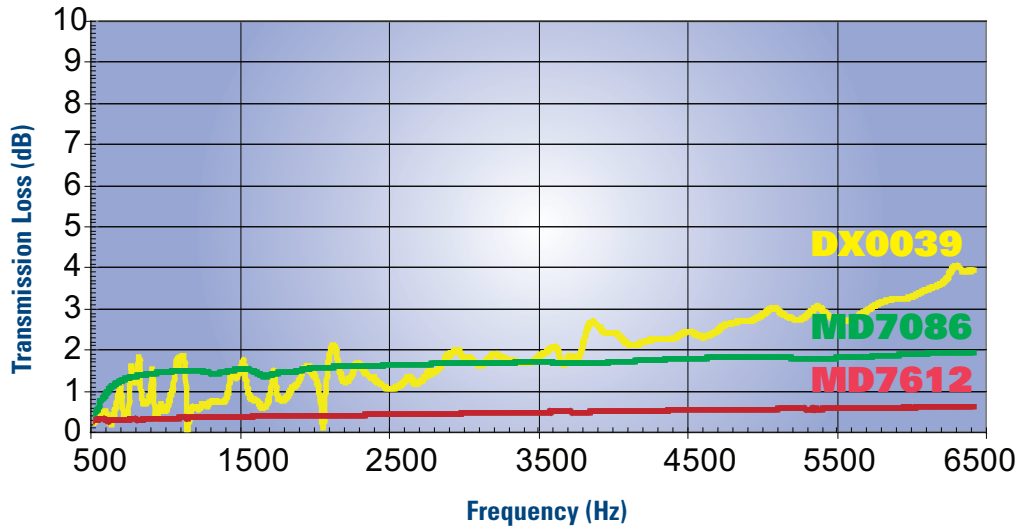
Donaldson acoustic media can be used in BTE and ITE hearing aids.

Other filter materials are also available.



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Acoustic Media Transmission Loss



* Application-specific results will vary depending on the exact configuration of the final part.