

OTICON | Opn Play

## Teknik veri sayfası

BTE PP

**ARES**  
 NOTER YEMİNLİ TERCÜME BÜROSU  
 OFFICIALLY SWORN TRANSLATION OFFICE  
 Kayışdağı Cad. Uğurbey Apt. No:88/11  
 İçerenköy - Ataşehir / İSTANBUL  
 Tel : (0216) 469 86 13 Fax : (0216) 469 86 14  
 www.arestercume.com

105

|                          | Oticon Opn Play 1                        | Oticon Opn Play 2              |                                |
|--------------------------|------------------------------------------|--------------------------------|--------------------------------|
| Konuşmayı Anlama         | OpenSound Navigator™                     | Seviye 1                       | Seviye 3                       |
|                          | - Güç etkisini dengeleme                 | 100%                           | 50%                            |
|                          | - Maks. gürültü uzaklaştırma             | 9 dB                           | 3 dB                           |
|                          | OpenSound Optimizer™                     | •                              | •                              |
|                          | Speech Guard™ LX                         | Seviye 1                       | Seviye 3                       |
|                          | Spatial Sound™ LX                        | 4 değerlendirici               | 2 değerlendirici               |
| Ses Kalitesi             | Speech Rescue™ LX                        | •                              | •                              |
|                          | Clear Dynamics                           | •                              | -                              |
|                          | Spatial Noise Managment                  | •                              | -                              |
|                          | Uygulama bant genişliği*                 | 10 KHz                         | 8 KHz                          |
|                          | Sinyal işleme kanalları                  | 64                             | 48                             |
|                          | Bas arttırma (ses iletiminde)            | •                              | •                              |
| Dinleme Konforu          | Geçici gürültü yönetimi                  | 4 yapılandırma                 | Açık/Kapalı                    |
|                          | Feedback shield LX                       | •                              | •                              |
|                          | Rüzgar gürültüsü yönetimi                | •                              | •                              |
| Optimum uygulama         | YouMatic™ LX                             | 3 yapılandırma                 | 1 yapılandırma                 |
|                          | Uygulama bantları                        | 16                             | 12                             |
|                          | REM AutoFit                              | VeriFit®LINK, IMC 2**          | VeriFit®LINK, IMC 2**          |
|                          | Pediyatrik Uygulama Modu                 | •                              | •                              |
|                          | DSL Uygulama Aralığı ***                 | •                              | •                              |
|                          | Uygulama formülleri                      | DSL v5.0,<br>NAL-NL1 + 2, VAC+ | DSL v5.0,<br>NAL-NL1 + 2, VAC+ |
| Çocuklar için tasarlandı | LED                                      | •                              | •                              |
|                          | Kurcalanmaya Karşı Dayanıklı Pili yuvası | •                              | •                              |
|                          | Hipoalerjenik                            | •                              | •                              |
|                          | IP Değeri                                | IP68                           | IP68                           |
|                          | Nano Kaplama                             | •                              | •                              |
|                          | Renk Seçenekleri                         | 12                             | 12                             |
|                          | Entegre 2.4 GHz Alıcı                    | •                              | •                              |
|                          | DAI/FM Uyumluluğu                        | •                              | •                              |

\* Uygulama sürecinde kazanç ayarı için erişilebilir bant aralığı

\*\* Modüller arası iletişim 2

\*\*\* Bu Teknik Veri sayfasında ve Opn Play Ürün Kılavuzunda kullanılır

## Çalıştırma koşulları

Sıcaklık: +1°C ile +40°C

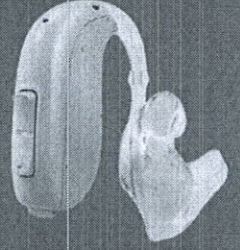
Bağıl nem: %5 ile %93 arasında, yoğunlaşmamış

## Saklama ve taşıma koşulları

Sıcaklık ve nem, uzun süreli taşıma ve saklama sırasında aşağıdaki sınırları aşmamalıdır:

Sıcaklık: -25°C ile +60°C arasında

Bağıl nem: %5 ile %93, yoğunlaşmamış



Oticon Opn Play™ BTE PP, mükemmel bir boyut, kullanım kolaylığı ve güç dengesine sahiptir. Tüm çocukların ihtiyaçlarını barındıran çok yönlü bir pediatrik cihazdır - orta ve ileri derece işitme kayıpları- nı kapsar.

OpenSound Navigator™ çocuklara, basit ve karmaşık dinleme ortamlarında tüm seslere 360° erişim sunarak, öğrenme fırsatlarını her daim maksimum düzeye çıkarır.

OpenSound Optimizer™, meydana çıkmadan önce feedback'i proaktif olarak tanımlayıp önleyerek, işitilebilirliği korur ve uygulama esnekliğini artırır.

TwinLink™ kablosuz bağlantı teknolojisi çift kulaklı iletişim ve 2,4 GHz bağlantıyı doğrudan iPhone ve Android mobil cihazlardan ses akışı ile bir araya getirir.

Oticon Opn Play, pazarda lider hız ve çözünürlük sunan ve pediatrik işitmeyi yeni bir seviyeye taşıyan Oticon'un Velox S™ platformu üzerinde geliştirilmiştir.

## Genel özellikler:

- Dijital Programlanabilir
- Otomatik ve manuel ses kontrolü
- Maksimum Çıkış Kontrol Sistemi
- MPO-Maksimum Güç Çıkışı
- GC-Kazanç kontrolü
- AGC-Otomatik kazanç kontrolü
- Gürültü azaltıcı
- Feedback yönetimi
- Çift mikrofön
- FM uyumlu
- 4 Programlı



**TwinLink**  
 NFMI + 2.4 GHz

Made for  
 iPhone | iPad | iPod

IP68

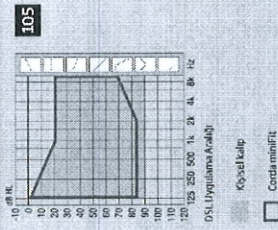
Uyumlulukla ilgili daha fazla bilgi için, lütfen [www.oticon.global/connectivity](http://www.oticon.global/connectivity) adresini ziyaret edin.

**oticon**  
 PEOPLE FIRST

## Oticon Opn Play 1

## BTEPP

### Teknik bilgiler



OSL Uygulama Analizi

Kışal kalıp

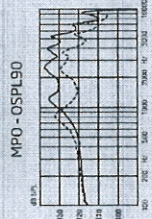
CordaminiFit

**Teknik bilgiler**  
Aksi belirtilmediği sürece çok yönlü mod kullanılmıştır.

**İşitme uzmanına uyarı**  
İşitme cihazının maksimum çıkış kapasitesi 132 dB SPL'i aşabilir (IEC711). Kullanıcının geri kalan işitme yeteneğine zarar verme riski bulunduğundan dolayı ürün seçimi ve uygulama sırasında büyük bir özen gösterilmelidir.

### Kulak Simülasyonu

ANSI S3.22-2014, IEC 60118-0:2015, IEC 60118-1:1995/AMD:1998 CSV ve IEC 60318-4:2010



MPD - OSPL90

Tam Kazanç

Standard Notum

Line Notum (boy 171.3)

Frekans Yanıtı

Akustik giriş: 60 dB SPL

Manyetik giriş: 31.5 mA/m

131 (129) dB SPL

123 (113) dB SPL

126 (118) dB SPL

66 (66) dB

57 (47) dB

61 (54) dB

50 dB

120-7000 Hz

109/109 dB SPL

3%

<2%

<2%

14 dB SPL

27 dB SPL

1.9 mA

1.6 mA

160

80-105

700/1400/2000 MHz: 18/20/40 dB SPL

IRIL (IEC 60118-13:2011)

Beklenen pil ömrü, saat (PIL) 13 - IEC PR48<sup>5)</sup>

IRIL (IEC 60118-13:2011)

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80-105

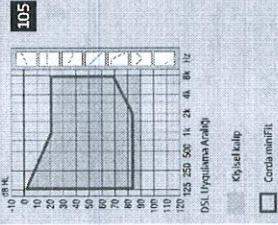
700/1400/2000 MHz: 18/20/40 dB SPL

IRIL (IEC 60118-13:2011)

## Oticon Opn Play 2

## BTEPP

### Teknik bilgiler



OSL Uygulama Analizi

Kışal kalıp

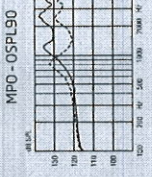
CordaminiFit

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120-7000 Hz

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700/1400/2000 MHz: 18/20/40 dB SPL

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80-105

700/1400/2000 MHz: 18/20/40 dB SPL

IRIL (IEC 60118-13:2011)



|                       | Oticon Opn Play 1               | Oticon Opn Play 2              |                                |
|-----------------------|---------------------------------|--------------------------------|--------------------------------|
| Speech Understanding  | OpenSound Navigator™            | Level 1                        | Level 3                        |
|                       | - Balancing power effect        | 100%                           | 50%                            |
|                       | - Max. noise removal            | 9 dB                           | 3 dB                           |
|                       | OpenSound Optimizer™            | •                              | •                              |
|                       | Speech Guard™ LX                | Level 1                        | Level 3                        |
|                       | Spatial Sound™ LX               | 4 estimators                   | 2 estimators                   |
| Sound Quality         | Speech Rescue™ LX               | •                              | •                              |
|                       | Clear Dynamics                  | •                              | •                              |
|                       | Spatial Noise Management        | •                              | •                              |
|                       | Fitting Bandwidth*              | 10 KHz                         | 8 KHz                          |
|                       | Processing Channels             | 64                             | 48                             |
| Listening Comfort     | Bass Boost (streaming)          | •                              | •                              |
|                       | Transient Noise Management      | 4 configurations               | On/Off                         |
|                       | Feedback shield LX              | •                              | •                              |
| Optimising Fitting    | Wind Noise Management           | •                              | •                              |
|                       | YouMatic™ LX                    | 3 configurations               | 1 configuration                |
|                       | Fitting Bands                   | 16                             | 12                             |
|                       | REM AutoFit                     | VeriFit®LINK, IMC 2**          | VeriFit®LINK, IMC 2**          |
|                       | Paediatric Fitting Mode         | •                              | •                              |
|                       | DSL Fitting Range ***           | •                              | •                              |
| Designed for children | Fitting Formulas                | DSL v5.0,<br>NAL-NL1 + 2, VAC+ | DSL v5.0,<br>NAL-NL1 + 2, VAC+ |
|                       | LED                             | •                              | •                              |
|                       | Tamper Resistant Battery Drawer | •                              | •                              |
|                       | Hypo Allergenic                 | •                              | •                              |
|                       | IP Rating                       | IP68                           | IP68                           |
|                       | Nano Coating                    | •                              | •                              |
|                       | Colour Options                  | 12                             | 12                             |
|                       | Integrated 2.4 GHz Receiver     | •                              | •                              |
|                       | DAI/FM Compatibility            | •                              | •                              |

\* Bandwidth accessible for gain adjustments during fitting

\*\* Inter Module Communication 2

\*\*\* Available in this Technical Data sheet and Opn Play Product Guide

**Operating conditions**

Temperature: +1°C to +40°C

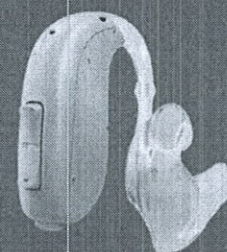
Relative humidity: 5% to 93%, non-condensing

**Storage and transportation conditions**

Temperature and humidity should not exceed the following limits for extended periods during transportation and storage.

Temperature: -25°C to +60°C

Relative humidity: 5% to 93%, non-condensing



Oticon Opn Play™ BTE PP has a perfect balance of size, ease of use and power. It's an all-round paediatric instrument that will accommodate the needs of most children - covering hearing losses from mild to severe.

OpenSound Navigator™ gives children 360° access to the full soundscape across simple and complex listening environments, constantly maximising learning opportunities.

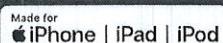
OpenSound Optimizer™ proactively identifies and prevents feedback before it occurs, preserving audibility and increasing fitting flexibility.

TwinLink™ wireless technology combines binaural communication and 2.4 GHz connectivity with stereo streaming directly from digital devices.

Oticon Opn Play is powered by Oticon's Velox S™ platform which offers marketleading speed and resolution and takes paediatric hearing care to a new level.

**General features:**

- Digital Programmable
- Automatic and Manual Volume Control
- Maximum Output Control System
- MPO-Maximum Power Output
- GC-Gain Control
- AGC-Automatic Gain Control
- Noise Reduction
- Feedback Management
- Dual Microphone
- FM Compatible
- 4 Programs

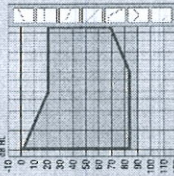
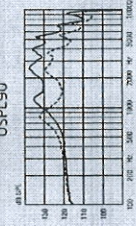
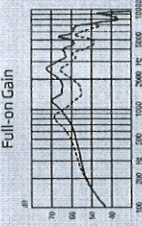
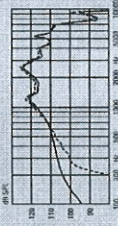
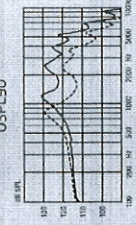
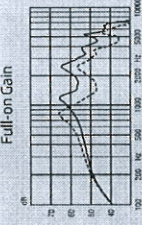
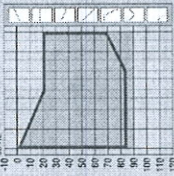
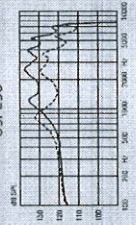
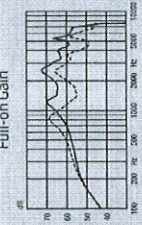
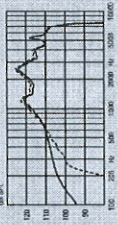
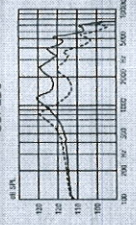
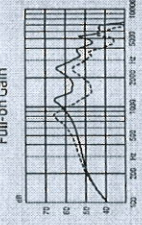
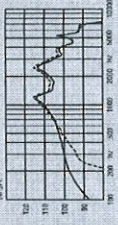

For information on compatibility, please visit [www.oticon.global/compatibility](http://www.oticon.global/compatibility)

# Oticon Opn Play 1

## BTEPP

## Oticon Opn Play 2

## BTEPP

|                |                                                                                     |                                                                                     |                                                                                                                                                          |                                                                                                            |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical data |  |  | <p><b>Ear Simulator</b><br/>Measured according to IEC 60118-01:1994/AM01:1994, IEC 60118-0:2015, IEC 60118-1:1996/AM01:1996 CS1 and IEC 60310-4:2010</p> | <p><b>2CC Coupler</b><br/>Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60310-5:2006</p> | <p><b>OSPL90</b></p>  <p><b>Full-on Gain</b></p>  <p><b>Frequency Response</b></p>  | <p><b>OSPL90</b></p>  <p><b>Full-on Gain</b></p>  <p><b>Frequency Response</b></p>  | <p><b>Technical information</b><br/>Omnidirectional mode is used unless otherwise stated.</p> <p><b>Instrument warning</b><br/>The maximum output capability of the hearing instrument may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing aid user.</p> | <p>Peak</p> <p>1600 Hz</p> <p>HFA-OSPL90</p> <p>Peak</p> <p>1600 Hz</p> <p>HFA-FOG</p> <p>Full-on gain<sup>2</sup></p> <p>Reference test gain</p> <p>Frequency range</p> <p>Telecoil output (1600 Hz)</p> <p>Total harmonic distortion (Input 70 dB SPL)</p> <p>Equivalent input noise level</p> <p>Battery consumption<sup>3</sup></p> <p>Battery life, artificial measurement, hours<sup>4</sup></p> <p>Expected battery life, hours (battery size 13 - IEC PR48)<sup>5</sup></p> <p>IRL (IEC 60118-13:2011)</p> | <p>131 (129) dB SPL</p> <p>123 (113) dB SPL</p> <p>126 (118) dB SPL</p> <p>66 (66) dB</p> <p>57 (47) dB</p> <p>61 (54) dB</p> <p>50 dB</p> <p>120-7000 Hz</p> <p>-</p> <p>-</p> <p>109/109 dB SPL</p> <p>3 %</p> <p>&lt;2 %</p> <p>&lt;2 %</p> <p>14 dB SPL</p> <p>27 dB SPL</p> <p>1.9 mA</p> <p>1.6 mA</p> <p>160</p> <p>80-105</p> <p>700/1400/2000 MHz: 18/20/40 dB SPL</p> |
|                |                                                                                     |                                                                                     |                                                                                                                                                          |                                                                                                            |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                 |
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|                |                                                                                     |                                                                                     |                                                                                                                                                          |                                                                                                            |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                 |
| Technical data |   |    | <p><b>Ear Simulator</b><br/>Measured according to IEC 60118-01:1994/AM01:1994, IEC 60118-0:2015, IEC 60118-1:1996/AM01:1996 CS1 and IEC 60310-4:2010</p> | <p><b>2CC Coupler</b><br/>Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60310-5:2006</p> | <p><b>OSPL90</b></p>  <p><b>Full-on Gain</b></p>  <p><b>Frequency Response</b></p>        | <p><b>OSPL90</b></p>  <p><b>Full-on Gain</b></p>  <p><b>Frequency Response</b></p>           | <p><b>Technical information</b><br/>Omnidirectional mode is used unless otherwise stated.</p> <p><b>Instrument warning</b><br/>The maximum output capability of the hearing instrument may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing aid user.</p> | <p>Peak</p> <p>1600 Hz</p> <p>HFA-OSPL90</p> <p>Peak</p> <p>1600 Hz</p> <p>HFA-FOG</p> <p>Full-on gain<sup>2</sup></p> <p>Reference test gain</p> <p>Frequency range</p> <p>Telecoil output (1600 Hz)</p> <p>Total harmonic distortion (Input 70 dB SPL)</p> <p>Equivalent input noise level</p> <p>Battery consumption<sup>3</sup></p> <p>Battery life, artificial measurement, hours<sup>4</sup></p> <p>Expected battery life, hours (battery size 13 - IEC PR48)<sup>5</sup></p> <p>IRL (IEC 60118-13:2011)</p> | <p>138 (132) dB SPL</p> <p>130 (121) dB SPL</p> <p>133 (126) dB SPL</p> <p>73 (69) dB</p> <p>65 (56) dB</p> <p>68 (62) dB</p> <p>57 dB</p> <p>150-7300 Hz</p> <p>97 dB SPL</p> <p>117 dB SPL</p> <p>-</p> <p>7 %</p> <p>5 %</p> <p>&lt;2 %</p> <p>17 dB SPL</p> <p>29 dB SPL</p> <p>1.8 mA</p> <p>1.6 mA</p> <p>175</p> <p>80-105</p> <p>700/1400/2000 MHz: 18/20/40 dB SPL</p> |
|                |                                                                                     |                                                                                     |                                                                                                                                                          |                                                                                                            |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                 |
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|                |                                                                                     |                                                                                     |                                                                                                                                                          |                                                                                                            |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                 |

For instruments fitted with Corda miniFit Power.

Measured with the gain control of the hearing aid set to its full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0+A13:1994 but without influence of feedback.

Battery current is measured according to IEC 60118-01:1994/AM01:1994 §7.7 and ANSI S3.22-2014 §5.13 after a settling time of minimum 3 minutes.

Battery consumption measurement (IEC 60118-01:1994/AM01:1994 §7.7 and ANSI S3.22-2014 §5.13 after a settling time of minimum 3 minutes).

The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.

Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels, incl. direct streaming from a TV (25% of the time) and streaming from a mobile phone (5% of the time).

For instruments fitted with Corda miniFit Power.

Measured with the gain control of the hearing aid set to its full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0+A13:1994 but without influence of feedback.

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Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels, incl. direct streaming from a TV (25% of the time) and streaming from a mobile phone (5% of the time).