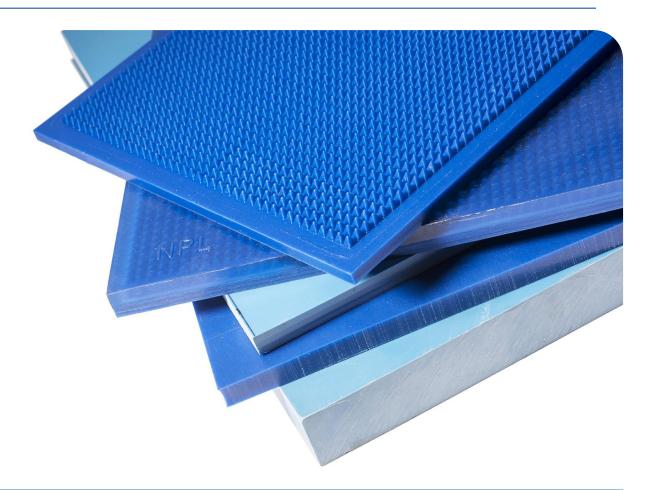


Acoustic materials product selector

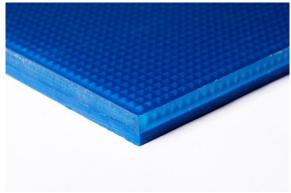


Precision Acoustics Ltd are pleased to offer a wide range of passive acoustic materials from Acoustic Polymers Ltd, designed to operate over a wide range of frequencies and operating conditions.

High Frequency Absorbers	2
Low Frequency Absorbers	3
Encapsulants	4
Syntactic Foams	5

HIGH FREQUENCY ABSORBERS

HAM A



Aptflex F28P



Aptflex F28



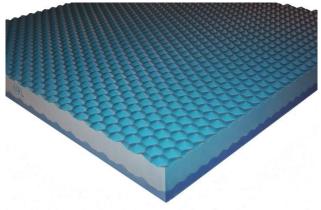
Aptflex F36



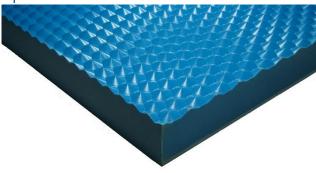
- Dual-layer pre-cast tile with internal structure and smooth external surface
- Frequency range: 1 MHz 15 MHz
- Echo reduction:
 - >35 dB (1 MHz 10 MHz)
- Insertion loss:
 - o 30 dB @ 1 MHz,
 - o >60 dB @ 2 MHz and higher
- Single-layer pre-cast tile with structured front surface
- Frequency range: 1 MHz 20 MHz
- Echo reduction:
 - → 40 dB (1 MHz 20 MHz)
- Insertion loss:
 - o 20 dB @ 1 MHz, 38 dB @ 2 MHz
 - o >60 dB @ 3 MHz and higher
- Single-layer pre-cast tile with smooth external surface
- Frequency range: 1 MHz 15 MHz
- Echo reduction:
 - o 20 dB @ 2 MHz
 - o 10 dB @ 15 MHz
- Insertion loss:
 - o 30 dB @ 1 MHz, 38 dB @ 2 MHz
 - o >60 dB @ 2 MHz and higher
- User-castable form of Aptflex F28
- Frequency range: 1 MHz 15 MHz
- Echo reduction:
 - o 20 @ 2 MHz
 - o 10 dB @ 15 MHz
- Insertion loss:
 - o 30 dB @ 1 MHz, 38 dB @ 2 MHz
 - o >60 dB @ 2 MHz and higher

LOW FREQUENCY ABSORBERS

The Alberich Tile



Aptile SF5048



Aptflex F48



- Dual-layer pre-cast tile with macrovoids between layers and structured front surface
- Frequency range: 2 kHz 25 kHz
- Echo reduction:
 - o 5 dB @ 2 kHz
 - o 30 dB @ 20 kHz
- Insertion loss:
 - o 5 dB @ 2 kHz
 - o >40 dB @ 20 kHz and higher
- Single-layer pre-cast sheet with structured front surface
- Frequency range: 2 kHz 200 kHz
- Echo reduction:
 - >15 dB (2 kHz 20 kHz)
 - >25 dB (20 kHz 200 kHz)
- Insertion loss:
 - o 5 dB @ 5 kHz, 12 dB @ 20 kHz
 - o >60 dB @ 150 kHz and higher
- Single-layer pre-cast tile with smooth surface
- Frequency range: 50 kHz 1.5 MHz
- Echo reduction:
 - >20 dB (50 kHz 450 kHz)
 - o 13 dB @ 1.5 MHz
- Insertion loss:
 - o 15 dB @ 50 kHz
 - o >60 dB @ 300 kHz and higher

ENCAPSULANTS

Aptflex F3S



Aptflex F7



Aptflex F13



Aptflex F21



- Tough and durable user-castable encapsulation material
- Excellent hydrolytic stability & electrical insulation
- Hardness: 75-80 (Shore A)
- Density: 1040 kg/m³
- Wavespeed: 1625 m/s (1 MHz 10 MHz)
- Low moisture sensitivity during cure
- Flexible user-castable encapsulation material
- Excellent hydrolytic stability & electrical insulation
- Hardness: 55 (Shore A)
- Density: 965 kg/m³
- Wavespeed: 1555 m/s (1 MHz 10 MHz)
- Rho-C matched to freshwater
- Encapsulation material with balance between toughness and flexibility
- Excellent hydrolytic stability
- Rho-C matched to freshwater
- Hardness: 65-70 (Shore A)
- Density: 960 kg/m³
- Wavespeed: 1560 m/s (1 MHz 10 MHz)
- Visually transparent to allow post-cure inspection of potted components
- Encapsulation material with balance between toughness and flexibility
- Excellent hydrolytic stability
- Rho-C matched to seawater
- Hardness: 80-85 (Shore A)
- Density: 980 kg/m³
- Wavespeed: 1600 m/s (1 MHz 10 MHz)

SYNTACTIC FOAMS

Aptflex F30



Aptflex F40



Aptflex F50



Aplex R3



- Two-part, user-castable microsphere filled syntactic foam
- Colour: Green
- Density: 650 kg/m³
- Hydrostatic crush depth: 4,500 msw
- Two-part, user-castable microsphere filled syntactic foam
- Colour: Yellow
- Density: 670 kg/m³
- Hydrostatic crush depth: 600 msw
- Two-part, user-castable microsphere filled syntactic foam
- Colour: Light Blue
- Density: 720 kg/m³
- Hydrostatic crush depth: 10,000 msw
- Three-part, user-castable microsphere filled syntactic foam
- Colour: Orange
- Density: 570 kg/m³
- Hydrostatic crush depth: 600 msw