

Acoustic performance

Test method: The method measures the sound absorption coefficient of materials in a 6.4m³ “Alpha-Cabin” according to automotive standards. The material surface exposed is 1.4m². Sound frequencies in the range of 400 to 10,000Hz are emitted and the level of reflected sound is registered. The absorption coefficient is calculated for each frequency.

Tested samples: ARPRO planks assembled to form a surface of 1.4m²

ARPRO performance: ARPRO is a good noise barrier material to avoid sound transmission while ARPRO Porous is a highly effective noise absorber across a broad range of frequencies from 600 to 10,000Hz.

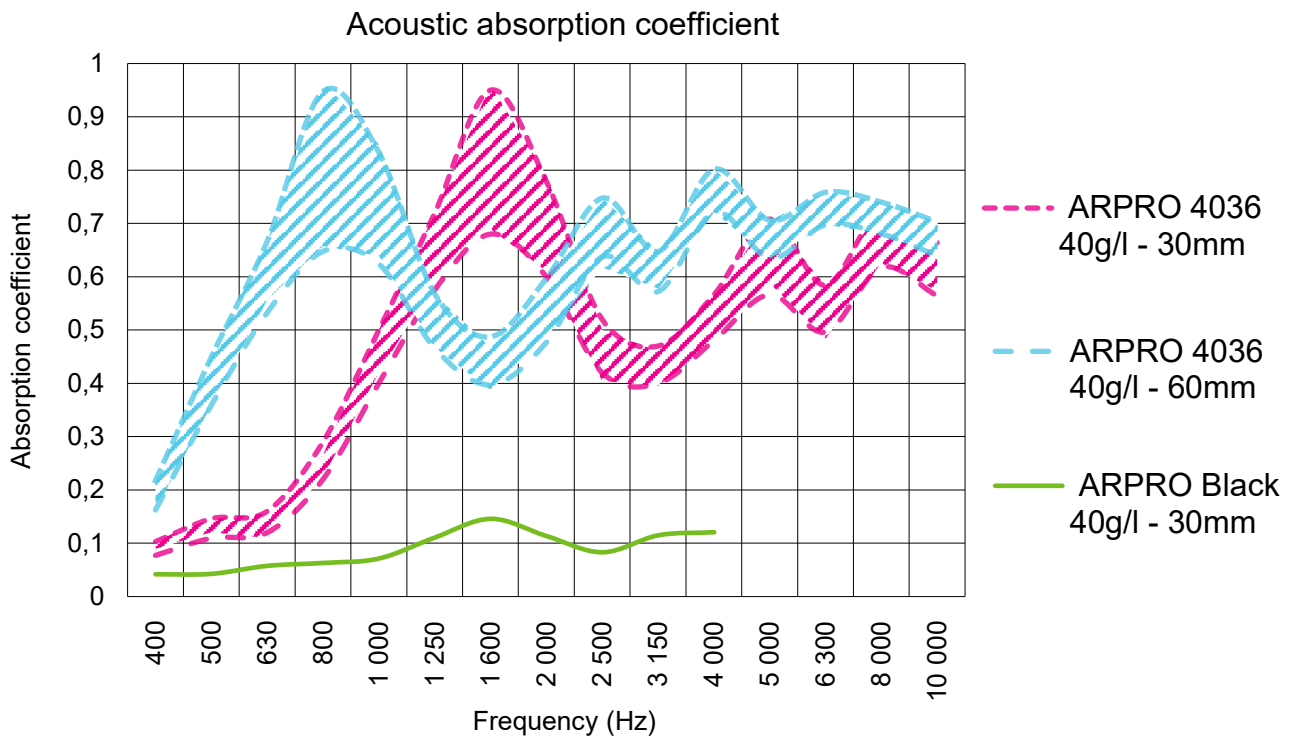
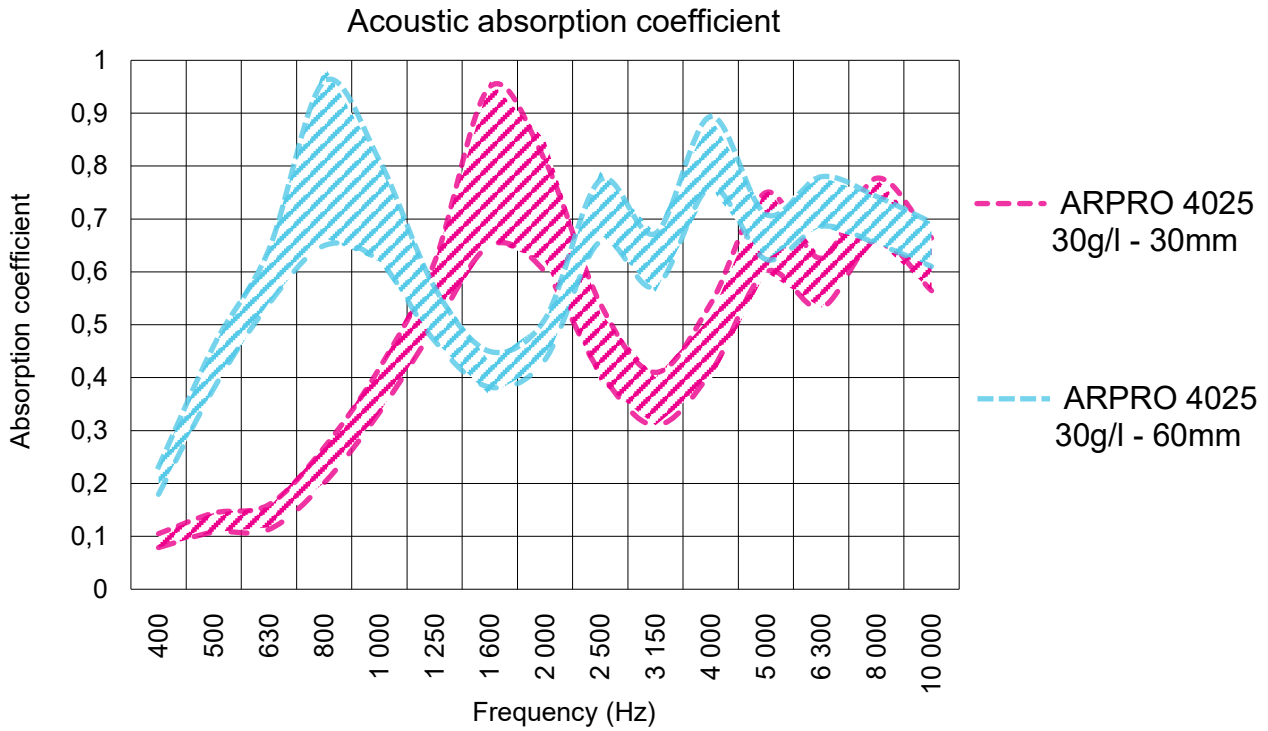
Test results:

Property	ARPRO grade	Test	Tested density (g/l)		
			30	40	50
Sound absorption coefficient at 1,250Hz	Black	“Alpha-cabin” 6.4m ³ – 30mm	-	0.11	-
	Porous 4025		0.62	0.67	-
	Porous 4036		-	0.72	0.86

Note: Acoustic test results can be greatly influenced by the part design as well as by moulding conditions such as:

- Pre-treatment
- Steaming and cooling parameters
- Compression ratio (ratio of moulded density over ARPRO bulk density)

For more information about ideal moulding conditions to reach optimum acoustic performance, [contact](#) your sales representative.



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