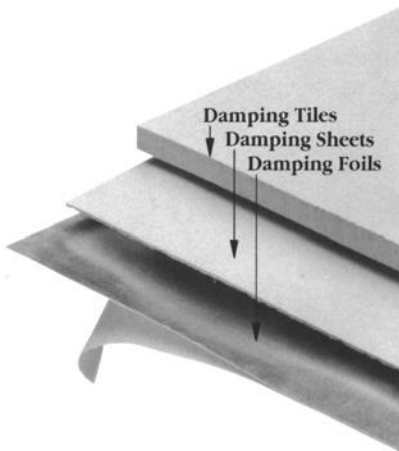


ALP 10/4 Foil Damping Sheets



ALP 10/4 Foil Damping sheets are self-adhesive damping material for sound and vibration damping of thin metal and plastic panels. It consists of 10mil (0.25mm) Aluminum sheet with 4mil (0.1mm) self-adhesive viscoelastic damping layer on one side. The adhesive side is smooth allowing full contact with the underlying surface, without any air-pockets or channels

ALP 10/4 is odorless, wear resistant, water-resistant and oil proof. The damping layer can withstand temperatures between -22°F (-30°C) and $+302^{\circ}\text{F}$ ($+150^{\circ}\text{C}$) and high aging resistances.

The acoustic properties of all viscoelastic material are temperature and frequency dependent. Figure 1 shows the variation of the composite loss factor for a 0.040" (1mm) thick steel beam which is covered with ALP 10/4 damping sheet.

The temperature dependence of the composite loss factor at the frequency of 200Hz for some steel and aluminum structures covered with ALP 10/4 is shown in Figure 2

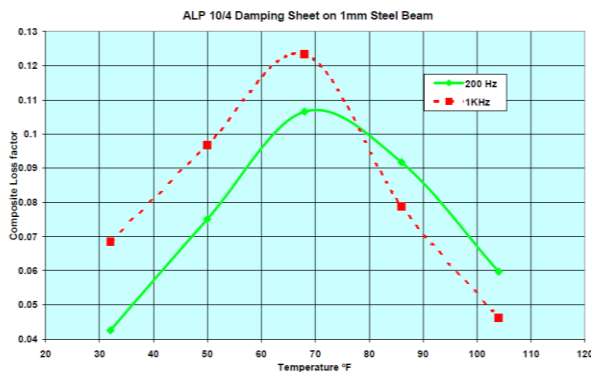


Figure 1 Effect of Temperature and Frequency on Composite Loss Factor

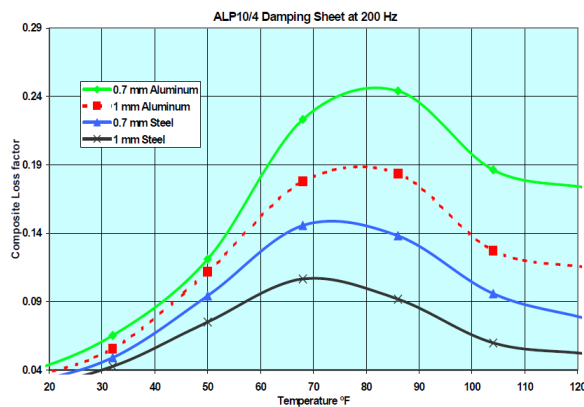


Figure 2 Effect of Structure type on Composite Loss Factor

Applications:

Typical applications include computer housings, appliances, transportation and construction equipment plus a wide variety of architectural applications. ALP 10/4's non combustible and electrical conductivity properties enables it to perform additional functions to its inherent superior acoustical properties. ALP 10/4 is easily handled, fabricated or die-cut. It is available in a variety of thicknesses and sizes

Delivery Form

Standard sheet sizes about 36" x 48" (915mm x 1220mm)

Specification

Color:	Aluminum
Thickness:	14mil (0.36mm)
Weight:	0.16lbs/sq.ft (0.78Kg/m ²)
Temperature resistance range:	-22°F (-30°C) to $+302^{\circ}\text{F}$ ($+150^{\circ}\text{C}$)

Short term temperature resistance range:	$+446^{\circ}\text{F}$ ($+230^{\circ}\text{C}$) for 40 minutes
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