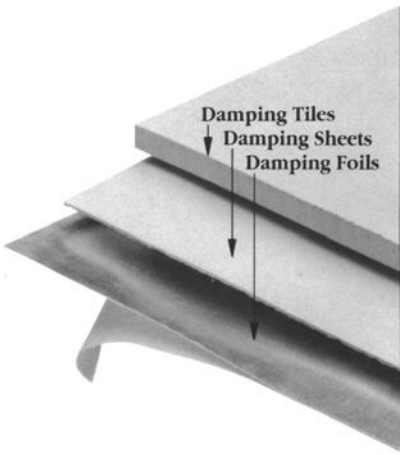
ALP 10/2 Foil Damping Sheets



ALP 10/2 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 2mil (0.05mm) 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 10/2 is odorless, wear resistant, water-resistant and oil proof. When installed, the damping layer can withstand a wide range of temperatures and has excellent aging properties.

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 10/2 damping sheet.

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

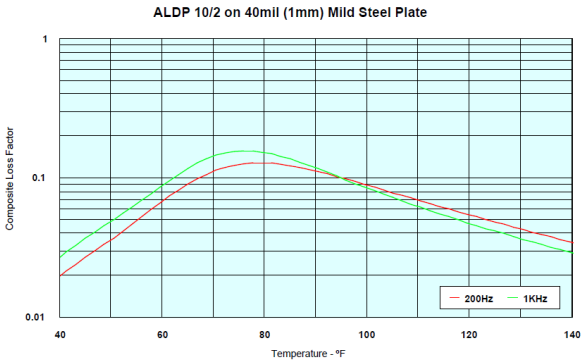


Figure 1 Effect of Temperature and Frequency on Composite Loss Factor

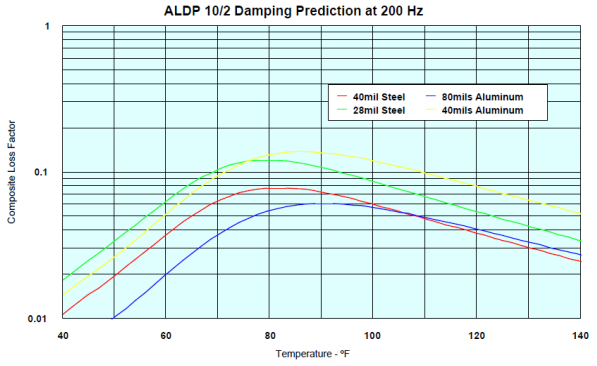


Figure 2 Effect of Structure type on Composite Loss Factor

Applications:

Typical applications include computer housings, appliances, transportation and construction equipment plus a wide variety of architectural applications.
ALP 10/2's non combustible and electrical conductivity properties enables it to perform additional functions to its inherent superior acoustical properties
ALP 10/2 is easily handled, fabricated or die-cut. It is available in a variety of thicknesses and sizes

Delivery Form

Standard sheet sizes about 48" x 48" (1220mm x 1220mm) other sizes are available on request

Specification

Color:	Aluminum
Thickness:	12mil (0.30mm)
Weight:	0.16lbs/sq.ft (0.78Kg/m²)
Minimum Application Temperature	50ºF (10ºC)
Temperature resistance range:	–22ºF (-30ºC) to +350ºF (+176ºC)
Short term temperature resistance range:	+400ºF (+204ºC) intermittently