

Aircraft Damping Composite – ADC-1312

Product Description

ADC-1312 is a low surface weight, high-performing aircraft damping composite for structural applications. This composite is specifically engineered for fuselage and interior trim damping at temperatures between 10° and 30°C.



TYPICAL PROPERTIES	ADC-1312
Nominal Thickness, inch	0.11
Nominal Weight, lb/ft ²	0.32
Optimal Temperature Performance Range, °C	10° to 30°
Chemical Resistance, weight gain (%) after 24 hours per ASTM D543 Deionized Water Skydrol® Hydraulic Fluid Ardrox® AV 30 Corrosion Inhibitor	2.6 14 7.8
Flammability FAR 25.853(a) Appendix F Part I (a) (1) (ii) 12 sec. FAR 25.856(a) Appendix F Part VI	Passes Passes
Durability, RTCA D0-160G High Temperature 100 hours at 90°C Temperature Variation, 100 cycles between -40° and 70°C	Survives Survives

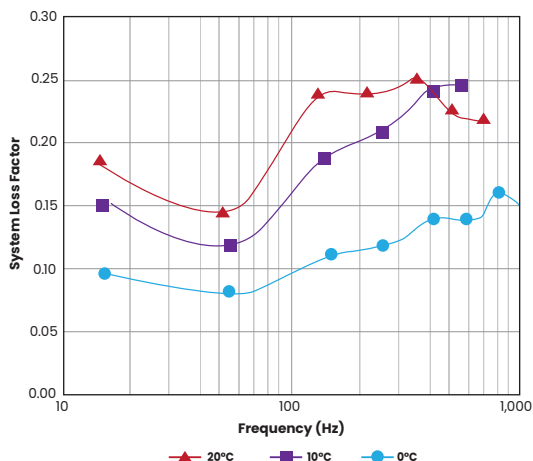
The above technical information and data should be considered representative or typical only and should not be used for specification purposes.

THERMAL CONDUCTIVITY, ASTM C518

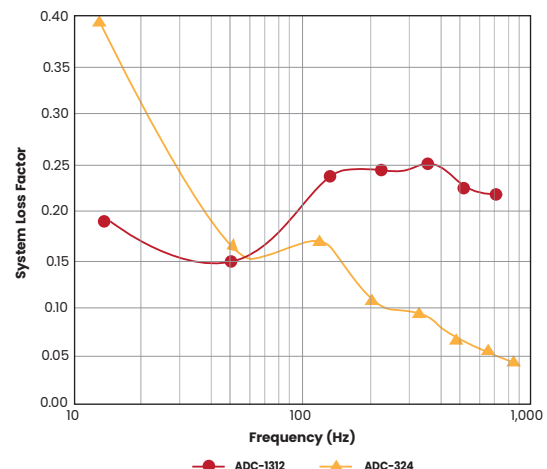
TEMPERATURE (°C)	K-Value (W/m ² K)
0	0.046
10	0.050
20	0.053
30	0.057
40	0.060
50	0.064
60	0.067
70	0.070

Calculated values from linear regression of measured data between 0° and 70°C.

40% COVERAGE ADC-1312 ON 0.060" THICK 3"X40" ALUMINUM BAR



40% COVERAGE ADC-1312 AND ADC-324 AT 20°C ON 0.060" THICK 3"X40" ALUMINUM BAR





Technical Information

The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose.

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