

ISODAMP™ C-1002

Product Description

The high internal damping of the ISODAMP™ C-1002 material reduces mechanically or acoustically induced vibrations and dissipates shock and impact energy at

a very rapid rate. These properties help make this material ideal for damped isolation and impact control applications.



TYPICAL PROPERTIES	ISODAMP™ C-1002
Description	Vinyl Solid
Hardness Nominal ASTM D2240 15 second post impact at 23°C (73°F) Type A Durometer	54
Dynamic Properties ASTM D4065 at 10 Hz, 0.3% Amplitude Glass Transition Temperature	-15°C (5°F)
Compression Set (%) ASTM D395 Method B 22 hours at 22°C (72°F) 22 hours at 70°C (158°F), 50°C (122°F)	16 58
Compression Load Deflection kPa (psi) ASTM D 3574-03 Test C @ 10% Compression @ 20% Compression @ 50% Compression	393 (57) 1145 (166) 2468 (358)
Tensile Strength kPa (psi) Tensile Strength kPa (psi) 51 cm/min (20 in/min) at 22°C (72°F)	8963 (1300)
Tear Strength kN/m (lbf/in) ASTM D624	35 (197)
Temperature Range °C (°F) Peak Damping Performance Temperature Range ASTM D4065 Loss Factor above 0.3% Strain in Shear Mode at 10Hz	-13°C to 37°C (9°F to 99°F)
Recommended Maximum Intermittent Temperature	82°C (180°F)
Maximum Continuous Service Temperature	70°C (158°F)

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

FAR Flammability Test Results

Material	ISODAMP™ C-1002			
	FAR 25.853(a) App F Part 1 (a) (1) (ii) 12 Second Vertical	FAR 25.853(a) App F Part 1 (a) (1) (ii) 60 Second Vertical	FAR 25.856(a) App F Part VI Radiant Panel on aluminum - top	FAR 25.853(a) App F Part 1(a)(1)(iv) 15 Second Horizontal
C-1002-03	Fail	Fail	Not Applicable	Pass
C-1002-03PSA	Fail	Fail	Pass	Pass
C-1002-03PSA700	Pass	Fail	Pass	Not Tested
C-1002-06	Pass	Not Tested	Not Applicable	Not Tested
C-1002-06PSA	Pass	Not Tested	Pass	Not Tested
C-1002-06PSA700	Pass	Not Tested	Pass	Not Tested
C-1002-12	Pass	Not Tested	Not Applicable	Not Tested
C-1002-12PSA	Pass	Not Tested	Not Tested	Not Tested
C-1002-12PSA700	Pass	Pass	Not Tested	Not Tested
C-1002-25	Pass	Not Tested	Not Tested	Not Tested
C-1002-25PSA	Pass	Not Tested	Not Tested	Not Tested
C-1002-25PSA700	Pass	Pass	Not Tested	Not Tested
C-1002-50	Pass	Pass	Not Tested	Not Tested

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.

Warranty, Limited Remedy, and Disclaimer

Unless an additional warranty is specifically stated on the applicable Aearo Technologies product packaging or product literature, Aearo Technologies warrants that each Aearo Technologies product meets the applicable Aearo Technologies product specification at the time Aearo Technologies ships the product. Aearo Technologies MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the Aearo Technologies product does not conform to this warranty, then the sole and exclusive remedy is, at Aearo Technologies's option, replacement of the Aearo Technologies product or refund of the purchase price.

Limitation of Liability

Except where prohibited by law, Aearo Technologies will not be liable for any loss or damage arising from the Aearo Technologies product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.