



**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 constrained layer damping, damped isolation and impact control applications.

**Typical Properties**

	ISODAMP™ C-1002
<b>Description</b>	Vinyl Solid
<b>Hardness Nominal</b> ASTM D2240 15 sec post impact at 23°C (73°F) Type A Durometer	54
<b>Dynamic Properties</b> ASTM D4065 at 10 Hz, 0.3% Amplitude Glass Transition Temperature	-15°C (5°F)
<b>Compression Set (%)</b> ASTM D395 Method B 22 hr at 22°C (72°F) 22 hr at 70°C (158°F), 50°C (122°F)	16 58
<b>Compression Load Deflection kPa (psi)</b> ASTM D575 at 0.51 cm/min (0.2 in/min) 10% kPa (psi) 20% kPa (psi) 30% kPa (psi)	400 (58) 1100 (159) 2500 (363)
<b>Tensile Strength kPa (psi)</b> ASTM D638 51 cm/min (20 in/min) at 22°C (72°F)	9000 (1305)
<b>Tear Strength kN/m (lbf/in)</b> ASTM D624	35 (197)
<b>Temperature Range °C (°F)</b> 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	Material Thickness Without Adhesive	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
<b>C-1002-03</b>	0.03"			X
<b>C-1002-03PSA</b>	0.03"			X
<b>C-1002-03PSA700</b>	0.03"	X		X
<b>C-1002-06</b>	0.06"	X		X
<b>C-1002-06PSA</b>	0.06"	X		X
<b>C-1002-06PSA700</b>	0.06"	X		X
<b>C-1002-12</b>	0.12"	X		X
<b>C-1002-12PSA</b>	0.12"	X		
<b>C-1002-12PSA700</b>	0.12"		X	
<b>C-1002-25</b>	0.25"	X		
<b>C-1002-25PSA</b>	0.25"	X		
<b>C-1002-25PSA700</b>	0.25"		X	
<b>C-1002-50</b>	0.50"	X		

#### 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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