



Product Description

ISODAMP C-6000 series is a highly damped thermoplastic vulcanizate, or TPV. It is available in 3 durometers in parts and assemblies.

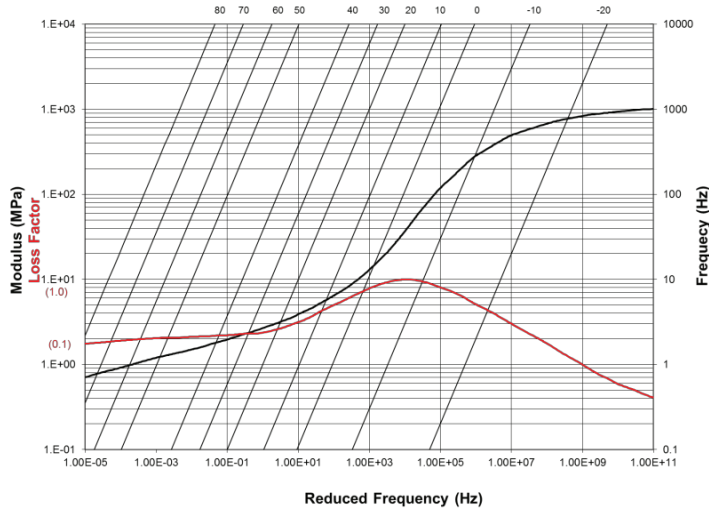
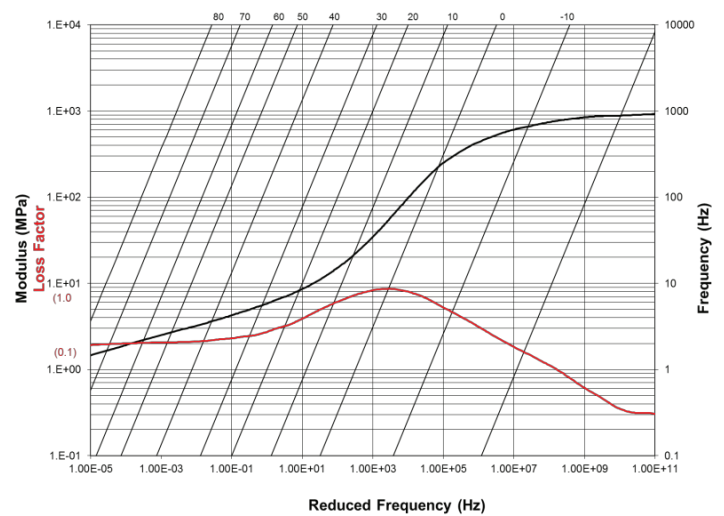
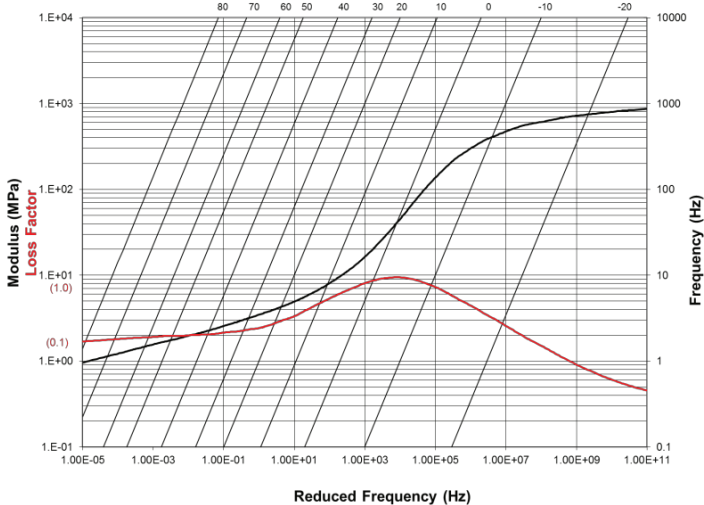
ISODAMP C-6000 Isolator parts and assemblies are used to enhance performance and protect electronic and mechanical devices from shock, vibration and noise.

ISODAMP C-6000 series parts are:

- Halogen-free per IEC 61249-2-21
- Free of substances of very high concern (SVHC)
- REACH compliant as of January 2021
- JIG-101 compliant
- RoHS 2 Compliant

TYPICAL PROPERTIES	C-6040	C-6050	C-6060
Hardness, ASTM D2240 Type A, 15 sec, 1 kg, 23°C (72°F)	40	50	60
Compression Force Deflection kPa (psi) ASTM D575 @ 0.51cm/min (0.2 in/min)			
10%	270 (39)	410 (59)	580 (84)
20%	500 (73)	750 (110)	1100 (150)
30%	800 (120)	1200 (170)	1600 (240)
Compression Set ASTM D395, Method B 25% @ 22°C (72°F) 25% @ 70°C (158°F)	20% 50%	20% 50%	25% 50%
Abrasion H22 wheels, 1000 cycles, 1000 grams load weight ASTM D3390, weight loss per revolution (mg)	0.6 mg	0.3 mg	0.5 mg
Tensile Strength kPa (psi) ASTM D412	400	550	700
Tear C kN/m (ppi) ASTM D624	90	110	130
Temperature Range °C (°F) Peak Damping Performance Temperature Range @ 10 Hz @ 100 Hz @ 1000 Hz	-19°C to 14°C -15°C to 26°C -10°C to 38°C	-17°C to 24°C -12°C to 36°C -8°C to 46°C	-12°C to 29°C -8°C to 38°C -3°C to 48°C
Dynamic Properties via DMA , 20°C Tan δ @ 10 Hz Tan δ @ 100 Hz Tan δ @ 1000 Hz	0.3 0.5 0.8	0.3 0.5 0.8	0.4 0.6 0.8
Flammability UL 94 6 mm Thickness	Meets V-0	Meets V-0	Meets V-0
RoHS Compliant	Yes	Yes	Yes

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

Nomogram ISODAMP™ C-6040

Nomogram ISODAMP™ C-6060

Nomogram ISODAMP™ C-6050


Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that Aearo Technologies LLC believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

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