

VC1001

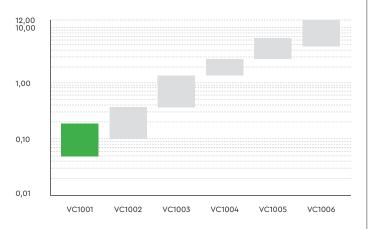


Cork & natural rubber

VC1001 Vibration Control material is an engineered compound with Cork and Natural Rubber.

This product is suitable for vibration control applications in need of very high isolation levels, used as discrete isolators (pads/strips) with a low ressonance frequency and low load.

WORK LOAD RANGE [MPA]



FEATURES

- ▶ Long term durability
- ▶ Low natural frequency / High vibration isolation
- ▶ Low water absorption
- ▶ Low creep rate

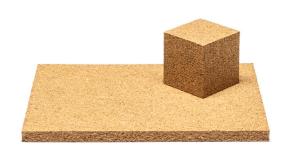
STANDARD DIMENSIONS*

- ▶ 915x915x12,5 mm
- ▶ 915x915x25 mm
- ▶ 915x915x50 mm
- * Other dimensions (like pads) available under request

FIRE CLASSIFICATION

E/Efl®

① as per ISO 11925-2:2010; ISO 11925-2:2010



LOAD RANGE

Static	0,05-0,20 MPa (7-29 psi)
Total	0,25 MPa (36 psi)
Occasional	0,60 MPa (87 psi)

E-MODULE (@ STABLE LOAD)

Static ®	0,8-1,5 MPa (160-217 psi)
Dynamic ®	1,2-3,6 MPa (174-522 psi)

DIN 53513 (adapted) - tangential modulus (depending on pad geometrics)
DIN 53513 (adapted) - depending on load and frequency

TEMPERATURE

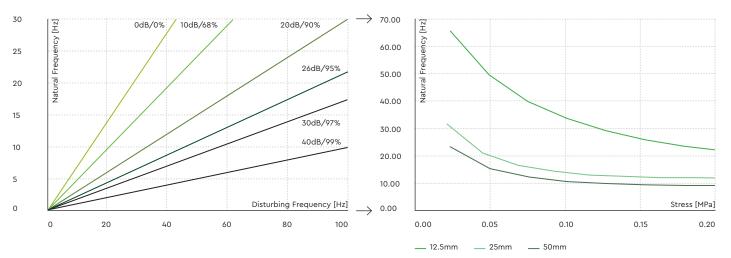
Range	-10 / +100°C (+14 / 212 °F)
-------	-----------------------------

TECHNICAL FEATURES

Density (kg/m³) ^①	500 (31 lb/ft³)
Shore hardness (Shore A) [®]	20-35
Elongation at break (%) [®]	> 80
Tensile strength (MPa) [®]	> 0,25 (>36 psi)
Compression set 50%/23°C/70h (%) [©]	< 20
Loss Factor [©]	0,15

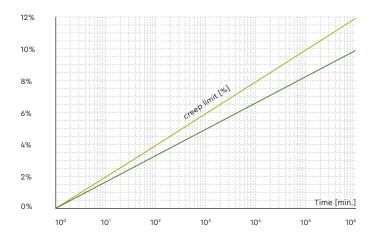
① ASTM D297 ② ASTM D2240 ③ ASTM F152 ④ DIN EN ISO 1856 ⑤ DIN 53513 (Temperature, frequency and load dependent)

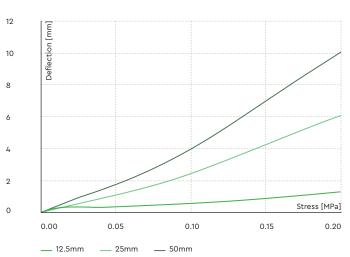
VIBRATION ISOLATION LEVEL



Note: When length and width are not listed, consider PAD's with 150×150 [mm]

CREEP DEFLECTION @ 0.25 MPA [%OF START HEIGHT]





Note: When length and width are not listed, consider PAD's with 150×150 [mm]

SELECTION GUIDELINE

Material selection can be made using the Static/Dynamic E-Module in the respective load range or using the Vibration Isolation Level Abacus below:

- ▶ Based on the machine/system disturbing frequency select the desired isolation level based on the material thickness and respective natural frequency for the specific load/ stress.
- Determine the material compression from the deflection curve at the specific load/ stress.
- Creep effect can be added to the above deflection via the Creep deflection graph calculating the additional deflection and adding.

MATERIAL DATA SHEET VC1001

The data provided in this Material Data Sheet represents typical values. This information is not intended to be used as a purchasing specification and does not imply suitability for use in a specific application. Failure to select the proper product may result in either equipments damage or personal injury. Please contact Amorim Cork Solutions regarding specific application recommendations. Amorim Cork Solutions expressly disclaims all warranties, including any implied warranties or merchantability or of fitness for a particular purpose. Amorim Cork Solutions is not liable for any indirect special, incidental, consequential, or punitive damages as a result of using the information listed in this MDS. Any of its material specification sheets, its products or any future use or re-use of them by any person or entity. For contractual purposes, please request our Product Specifications Sheet (PDA).

www.amorimcorksolutions.com CTP-76/003 | DEC 2024 | EN