

VC-PAD-5015

Material Data Sheet

RESIN BONDED CORK & RECYCLED RUBBER



VC-PAD-5015 is an engineered composite with Cork and polymeric matrix structure.

This product is suitable for vibration control in construction, used in the form of a cube, as discrete isolators in the decoupling of floating floors.

LOAD RANGE

- **STATIC** 0,30 - 0,85 MPa (43 - 123 psi)

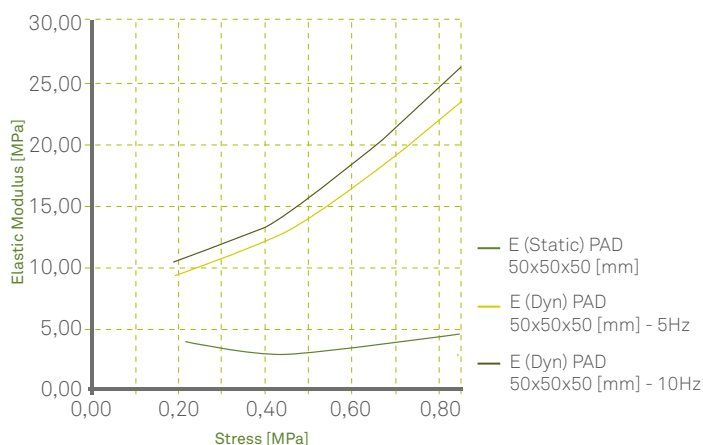
E-MODULE (@ stable load)

- **STATIC** 2,9 - 4,4 MPa (420 - 640 psi)
- **DYNAMIC** 13 - 27 MPa (1885 - 3920 psi)

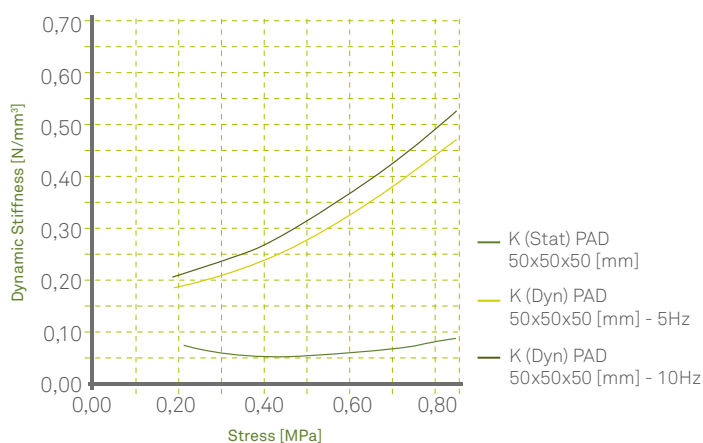
TEMPERATURE

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

MODULUS OF ELASTICITY [MPa]



DYNAMIC STIFFNESS [N/MM³]



Density (kg/m ³) ⁽¹⁾	600 (40 lb/ft ³)
Shore hardness (Shore A) ⁽²⁾	60 - 70
Elongation at break (%) ⁽³⁾	> 15
Tensile strength (MPa) ⁽³⁾	> 0,7 (>102 psi)
Compression set 50%/23°C/70h (%) ⁽⁴⁾	< 15
Compressibility at 0,7 MPa (%) ⁽⁵⁾	35 - 50
Recovery at 0,7MPa (%) ⁽⁵⁾	> 70

(1) ASTM D297
(2) ASTM D2240
(3) ASTM F152

(4) DIN 53572
(5) ASTM F36

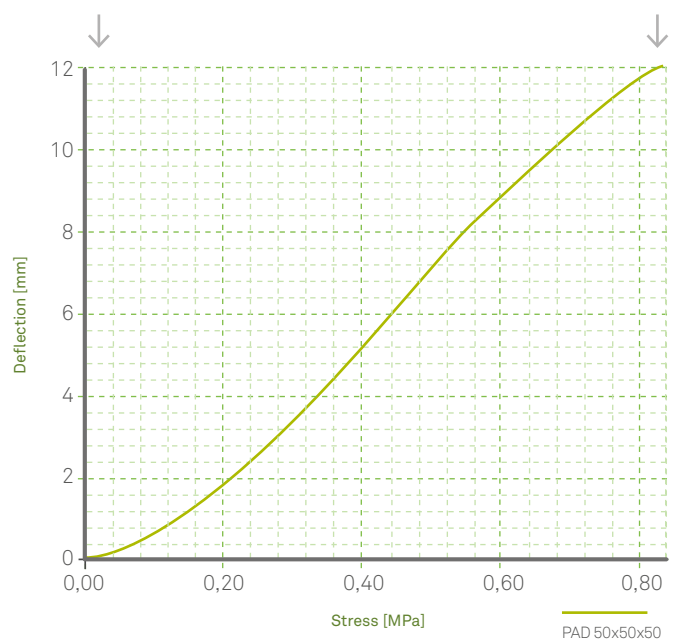
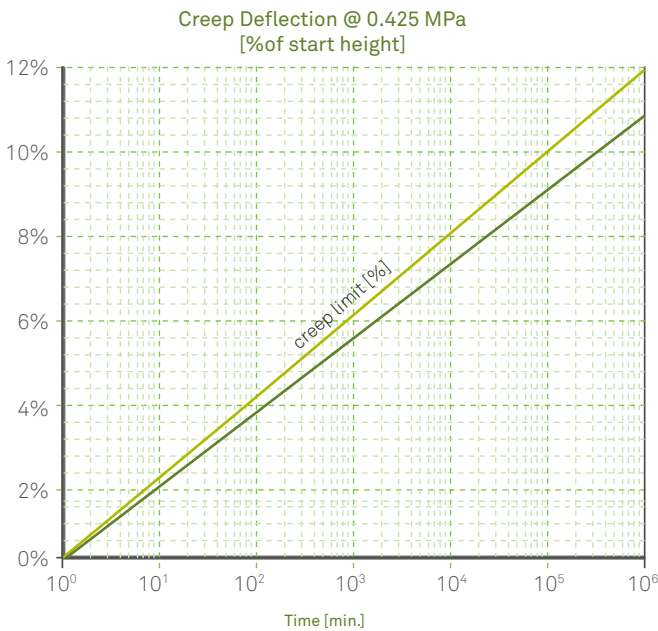
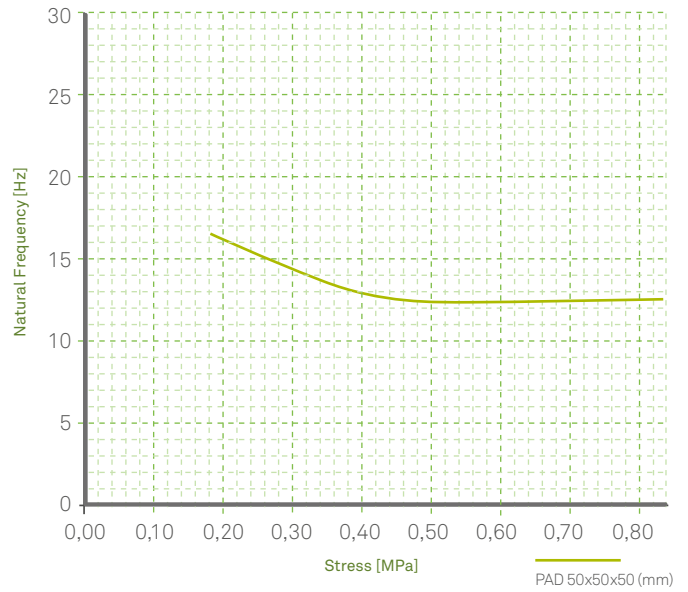
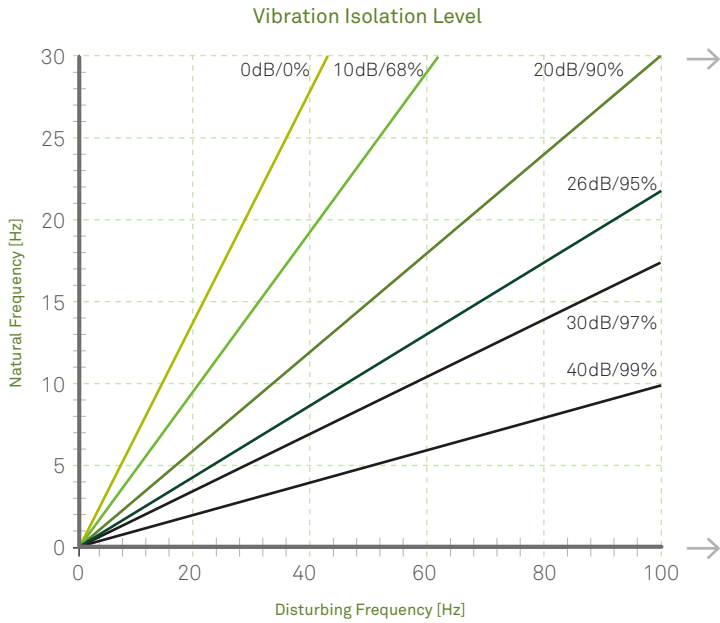
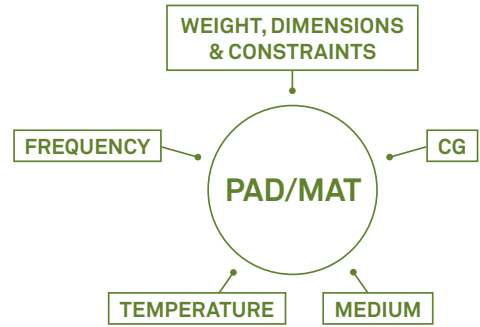
FEATURES

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

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.



**AMORIM
CORK
COMPOSITES**

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