ACOUSTICORK

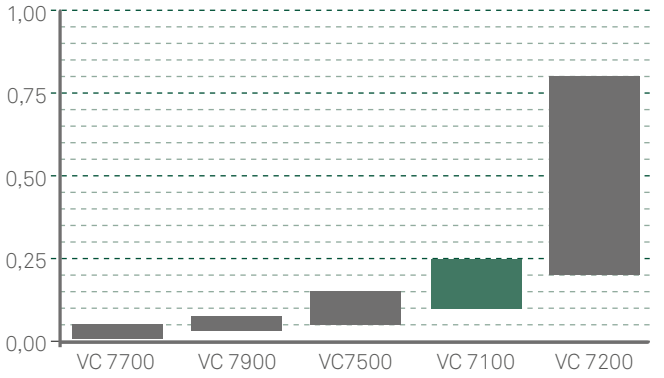
AMORIM CORK COMPOSITES

VC7100

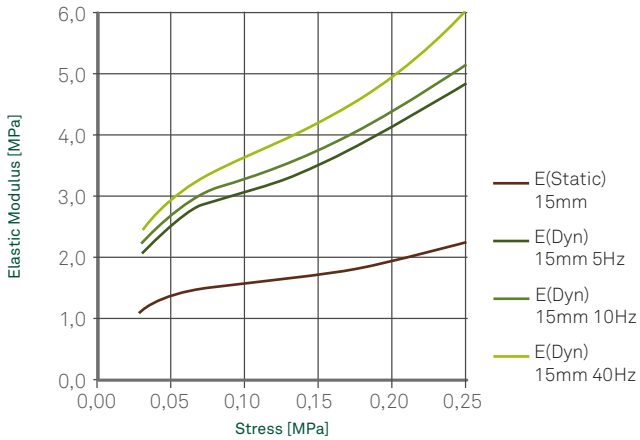
Material Data Sheet

RECYCLED RUBBER

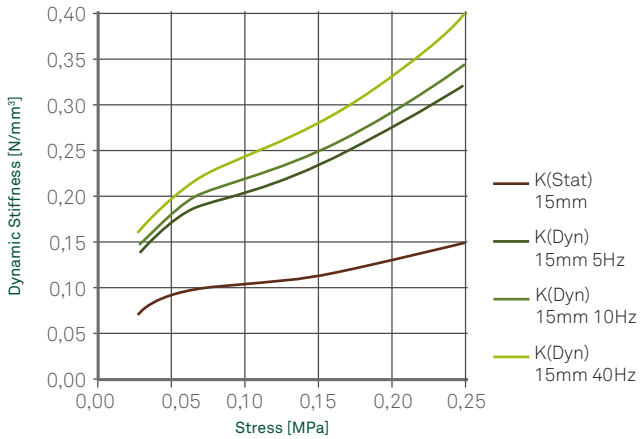
WORK LOAD RANGE [MPa]



ELASTIC MODULUS [MPa]



DYNAMIC STIFFNESS [N/mm³]



VC 7100 is an engineered polyurethane-bound recycled rubber-granulate material.

This product is suitable for vibration control in construction applications, used as a mat or strip for medium loads, to reduce vibration, absorb shock and structural borne noise.

LOAD RANGE

- **PERMANENT STATIC** 0,10-0,25 MPa (1,5 - 36,3 psi)

E-MODULE

- **STATIC** (1) 1,50-2,10 MPa (218 - 305 psi)
- **DYNAMIC** (2) 2,00-6,00 MPa (377- 870 psi)

(1) DIN 53513 (ADAPTED) - TANGENTIAL MODULUS
(2) DIN 53513 (ADAPTED) - DEPENDING ON LOAD AND FREQUENCY

Compression Set (%) (1)	4,1
Tensile Strength (MPa) (2)	> 0,35 (51 psi)
Elongation at break (%) (2)	> 75
Tear- Resistance (N/mm) (3)	> 6,5
Flammability (4)	*B2
Density (Kg/m³) (5)	710 (44 lb/ft3)

(1) DIN 53572 - MEASURED 30MIN AFTER DECOMPRESSION WITH 50% DEFORMATION / 23°C AFTER 72H
(2) DIN 53571
(3) DIN 53515
(4) DIN 4102
(5) DIN D297
* B2 = NORMAL FLAMMABLE

FEATURES

- Revalorised product
- Supplied in rolls, sheets or strips
- Available in a width of 1000 or 1250mm and up to a length of 10m

RoHS Compliant
AMORIM CORK COMPOSITES

CERTIFICAÇÃO apcer ISO 9001 ISO 14001 OHSAS 18001 — CERTIFIED IQNet MANAGEMENT SYSTEM

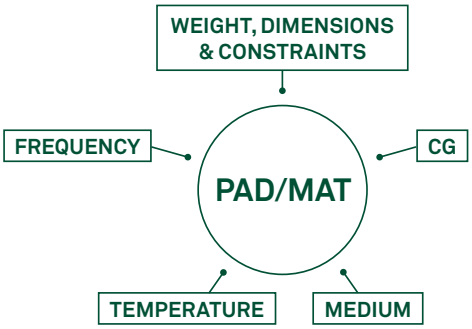
Selection Guideline

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

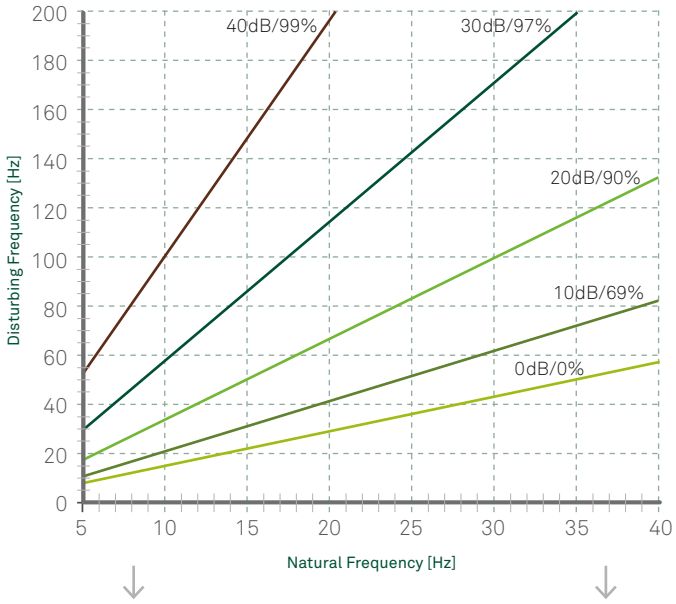
• Based on the machine/system disturbing frequency select the desired isolation level based on the material thickness and respective natural frequency for the specific load/ stress.

• Determine the material compression from the deflection curve at the specific load/ stress.

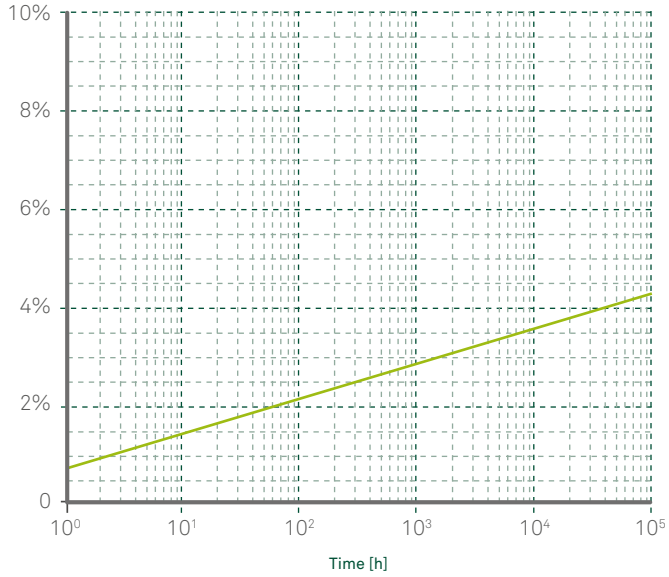
• Creep effect can be added to the above deflection via the Creep deflection graph calculating the additional deflection and adding.

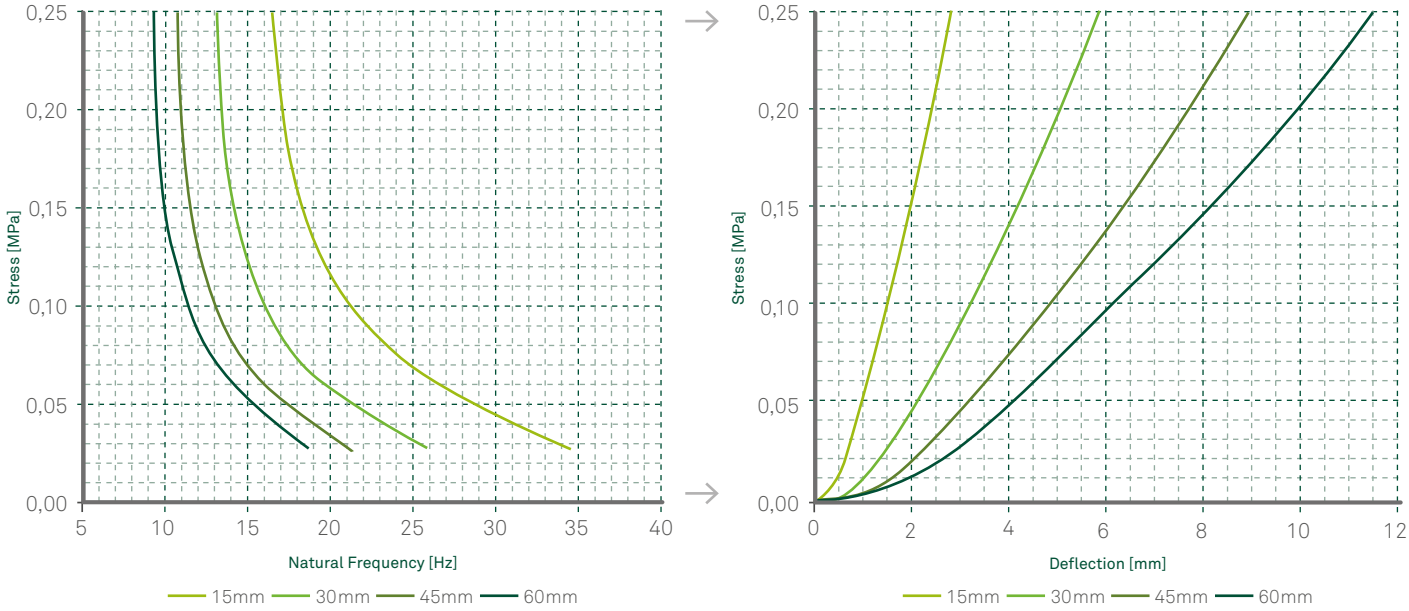


Vibration Isolation



Creep Deflection @ 0.125 MPa
[% of start height]





Note: 30mm, 45mm and 60mm thickness achieved through stacking 15mm (flat) thickness layers.
Note: Samples tested - 300x300 [mm]

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