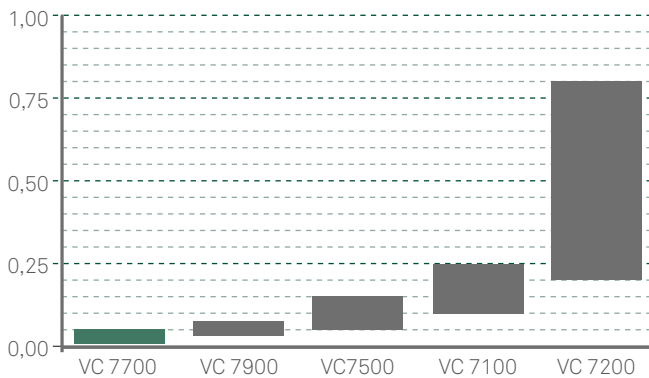


VC7700

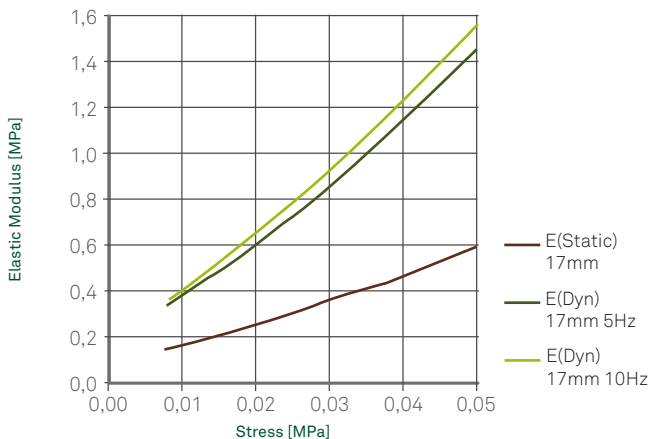
Material Data Sheet

RECYCLED RUBBER

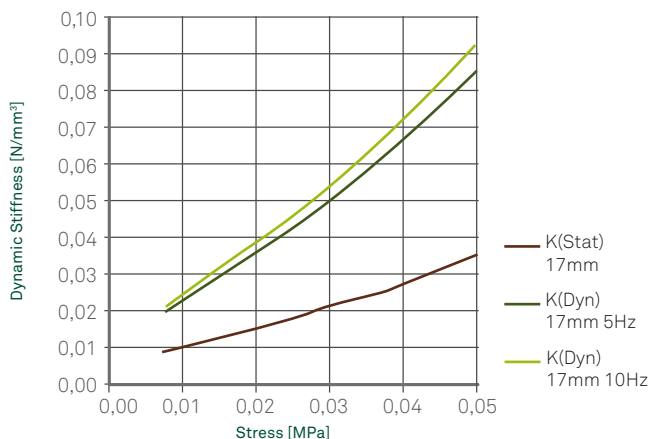
WORK LOAD RANGE [MPa]



ELASTIC MODULUS [MPa]



DYNAMIC STIFFNESS [N/mm³]



VC 7700 is an engineered polyurethane-bound recycled rubber-granulate material with a profiled surface.

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

LOAD RANGE

- **PERMANENT STATIC** 0,01-0,05 MPa (1,5 - 7,3 psi)

E-MODULE

- **STATIC** ⁽¹⁾ 0,17-0,60 MPa (25- 87 psi)
- **DYNAMIC** ⁽²⁾ 0,35-1,6 MPa (51 - 232 psi)

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

| | |
|---|------------------------------|
| Compression Set (%) ⁽¹⁾ | 6,2 |
| Tensile Strength (MPa) ⁽²⁾ | > 0,25 (36 psi) |
| Elongation at break (%) ⁽²⁾ | > 60 |
| Tear- Resistance (N/mm) ⁽³⁾ | > 3,217 |
| Flammability ⁽⁴⁾ | *B2 |
| Density (Kg/m ³) ⁽⁵⁾ | 550 (34 lb/ft ³) |

(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

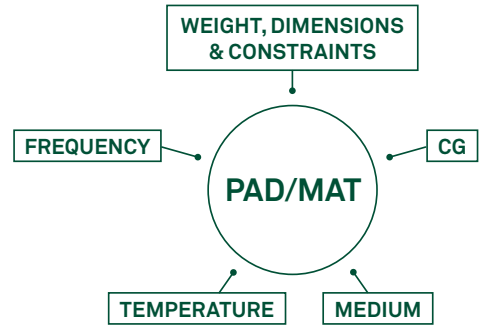
FEATURES

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

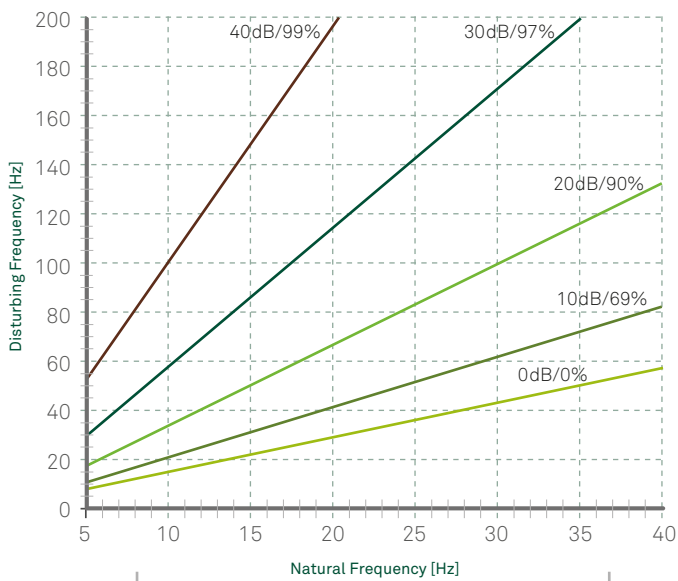
Selection Guideline

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

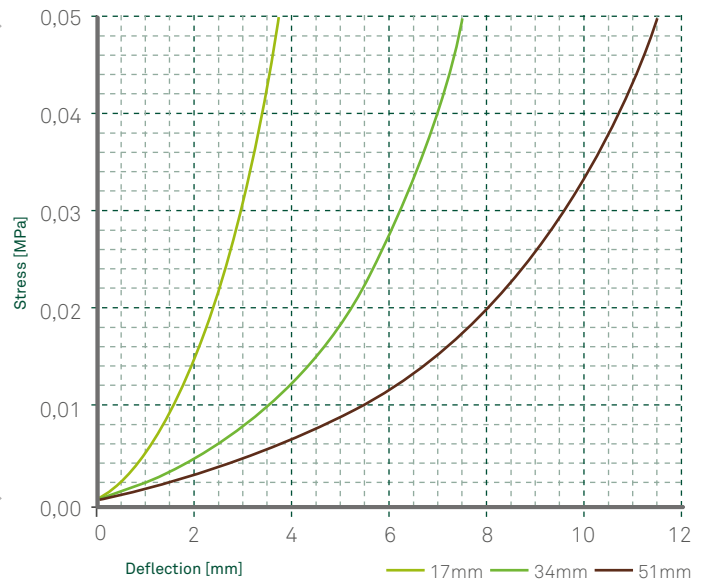
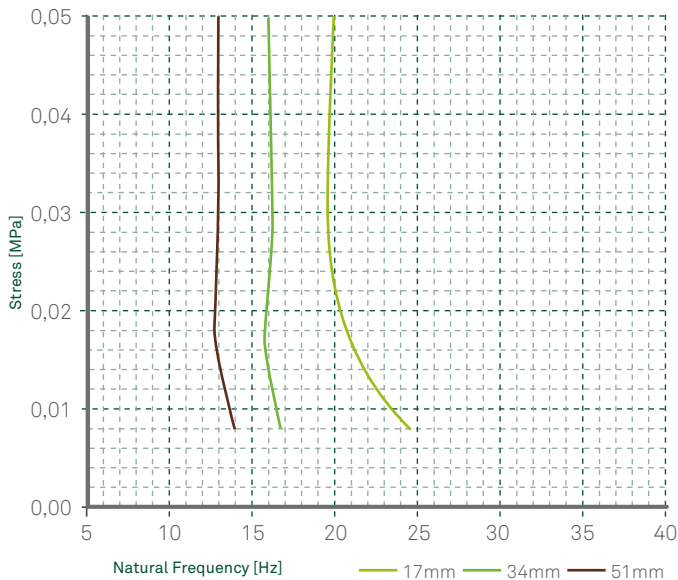
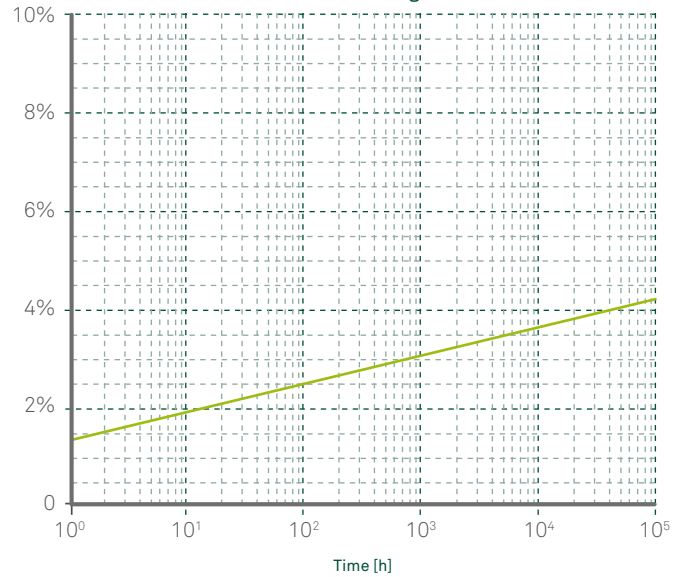
- Based on the machine/system disturbing frequency select the desired isolation level based on the material thickness and respective natural frequency for the specific load/ stress.
- Determine the material compression from the deflection curve at the specific load/ stress.
- Creep effect can be added 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: 34mm and 51mm thickness achieved through stacking 17mm (profile) thickness layers.
Note: Samples tested - 300x300 [mm]