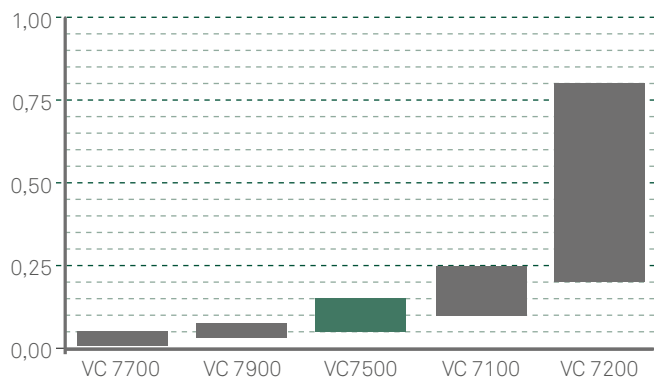


VC7500

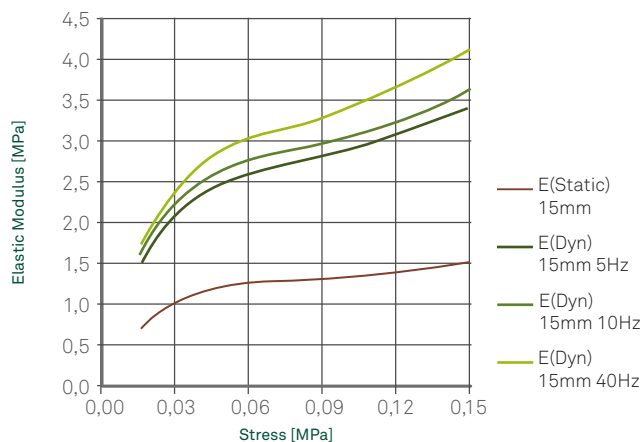
Material Data Sheet

RECYCLED RUBBER

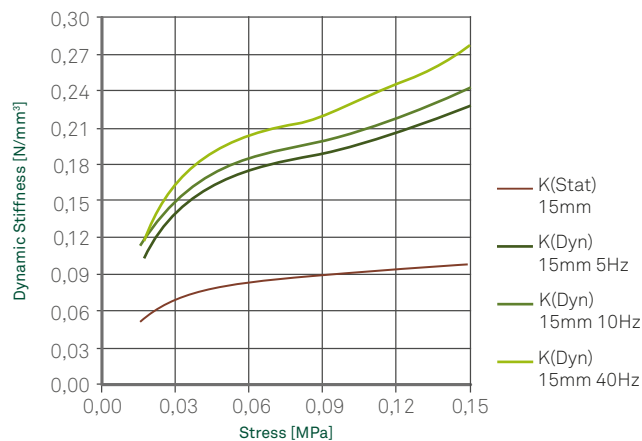
WORK LOAD RANGE [MPa]



ELASTIC MODULUS [MPa]



DYNAMIC STIFFNESS [N/mm³]



VC 7500 is an engineered polyurethane-bound recycled rubber-granulate material.

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

LOAD RANGE

- **PERMANENT STATIC** 0,05-0,15 MPa (7,3 - 21,8 psi)

E-MODULE

- **STATIC**⁽¹⁾ 1,20-1,50 MPa (174 - 218 psi)
- **DYNAMIC**⁽²⁾ 2,30-4,30 MPa (333 - 624psi)

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

Compression Set (%) ⁽¹⁾	1,6
Tensile Strength (MPa) ⁽²⁾	>0,25 (36 psi)
Elongation at break (%) ⁽²⁾	> 60
Tear-Resistance (N/mm) ⁽³⁾	> 3,5
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

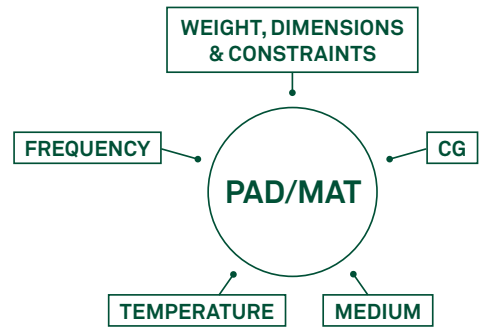
FEATURES

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

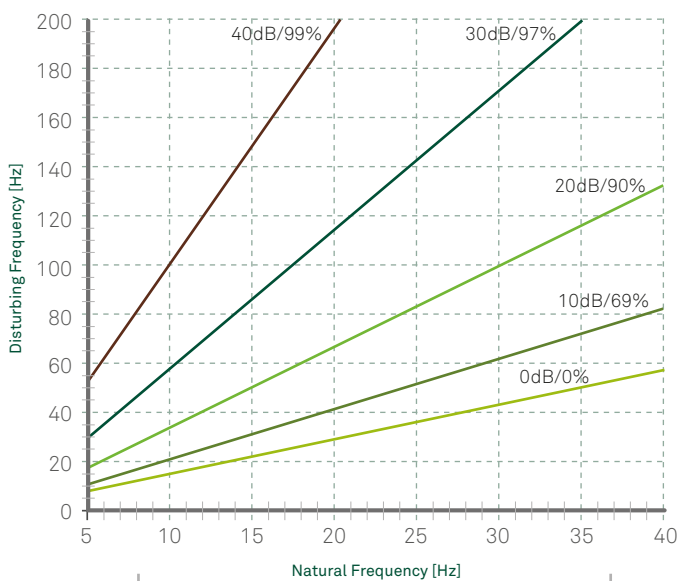
Selection Guideline

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

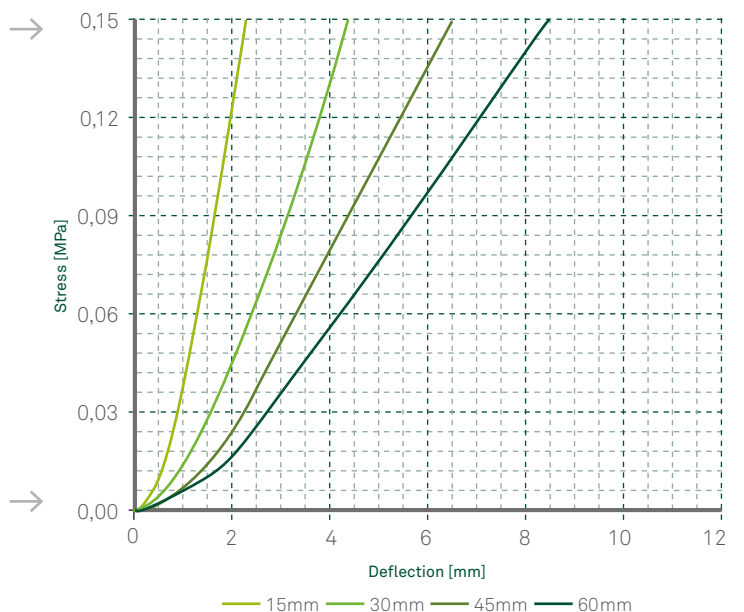
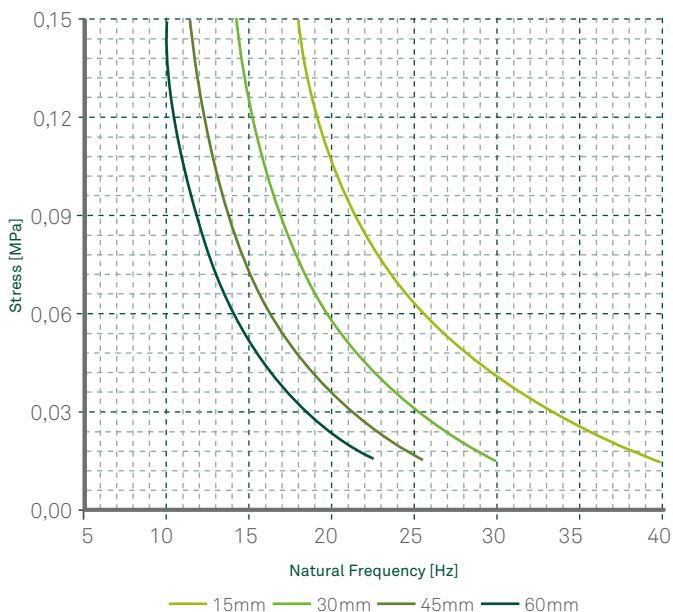
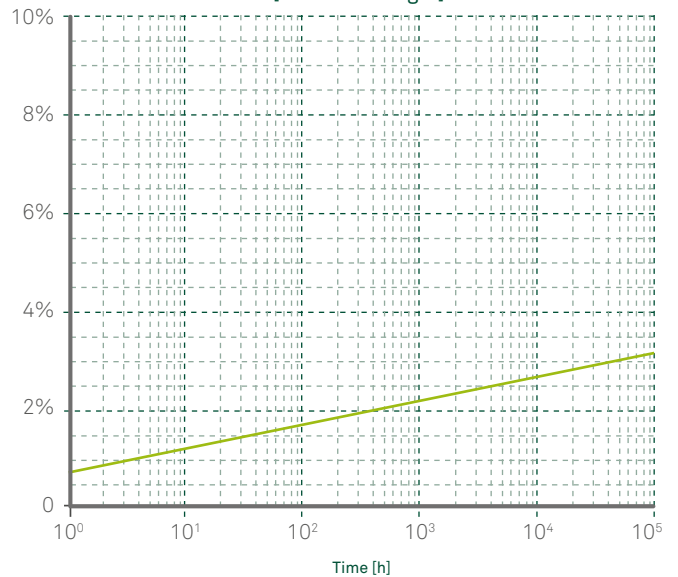
- Based on the machine/system disturbing frequency select the desired isolation level based on the material thickness and respective natural frequency for the specific load/ stress.
- Determine the material compression from the deflection curve at the specific load/ stress.
- Creep effect can be added 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: 30mm, 45mm and 60mm thickness achieved through stacking 15mm (flat) thickness layers.
Note: Samples tested - 300x300 [mm]