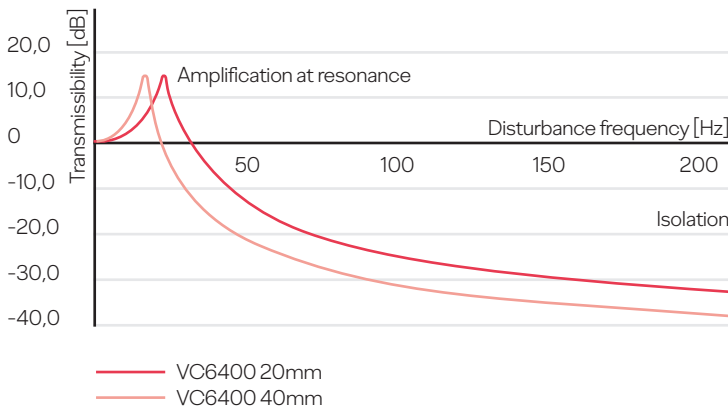


Material Description & Properties

VC6400 Vibration Control material is a compound engineered with Cork and Synthetic rubber. This product is recommended for external vibration control applications, specifically formulated to guarantee long-term performance in the application environment when subjected to conditions such as the presence of ozone.

Maximum load	2.0 MPa (290psi)
Work load range	0.5 to 1.5 MPa (72 to 217 psi)
Temperature range	-50° C to 110° C (-58° F to 230° F)

Transmissibility



Specially designed to isolate the transmission of vibrations; to be used as external pads:

- Large HVAC equipment
- Industrial Machinery
- Transformers
- Reactors

Density (kg/m ³) ¹	800-1000
Hardness (shore A) ²	55-70
Tensile strength (MPa) ³	>1
Creep rate (%) ⁴	1.4

- (¹) ASTM F1315
 (²) ASTM D2240
 (³) ASTM F152
 (⁴) ISO 8013

Transmissibility Analysis, for a 150 x 150 pad

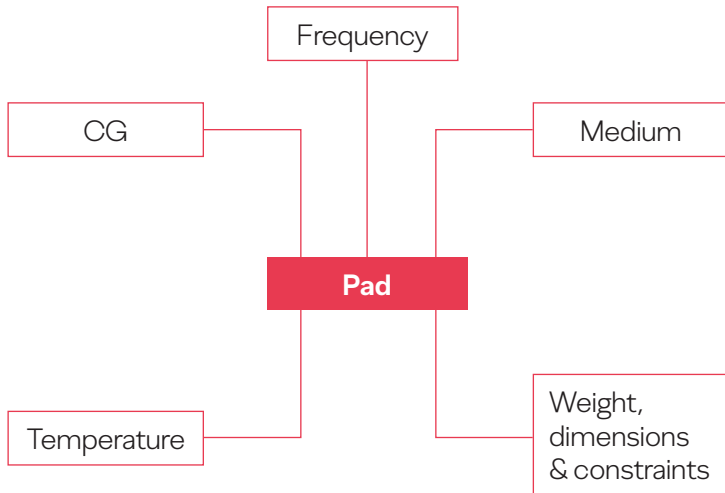
Read the Transmissibility by projecting a vertical line from the disturbance frequency to intercept the curve.

Features

- Reduce vibration, absorb shock and structure borne noise
- Weather resistance
- Ozone resistance
- Available in thicknesses up to 50 mm
- One layer material avoiding de-lamination issues
- Easy to fabricate into pads
- Retains original length and width under compression due to cork's Poisson's ratio

VC6400 is free of

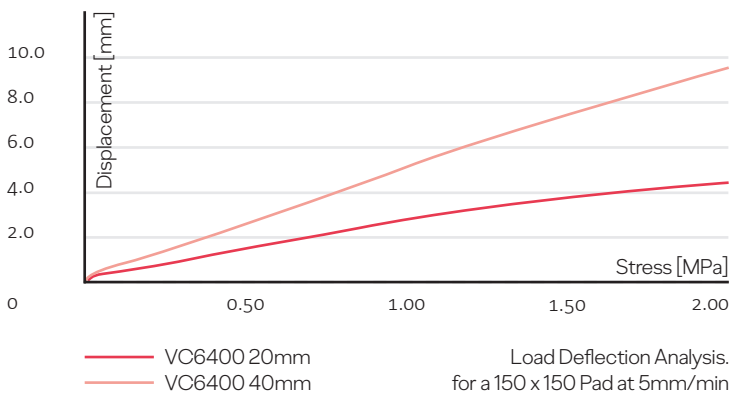
- Polycyclic Aromatic Hydrocarbons (PAH)
- Heavy Metals (Pb, Cd, Hg and Cr (VI))
- Asbestos



Design Guidelines

In order to have the best design approach, there are key factors to consider:

- Equipment (type and size), dimensional constraints and total weight
- Centre of gravity (CG) to calculate the weight distribution between the mounting points
- Disturbance/ Excitation frequency and required isolation efficiency
- Operating temperature
- Environmental conditions (Medium)

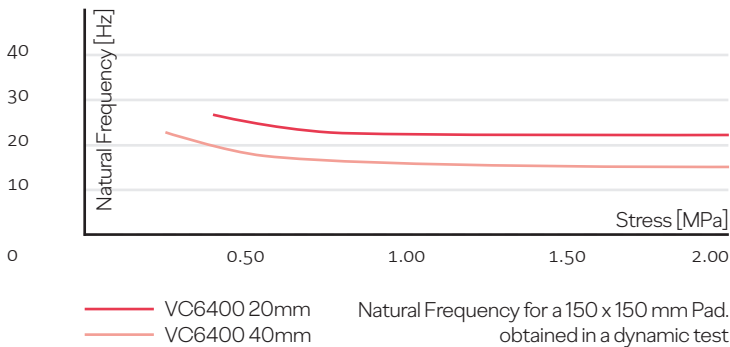


Pad Stress

Calculate Pad Stress in MPa (or N/mm²):

$$\text{Stress in MPa} = \frac{\text{Weight of machine in kg} \times 9.8}{\text{Total Pad area in mm}^2}$$

- Project vertical line from calculated stress to intercept the curve
- Read deflection (mm) of vertical axis of graph
- Total Pad area = number of Pads x Pad area



Pad natural frequency

Natural frequency of Pad:

- Calculate stress on Pad in N/mm² (see above)
- Project vertical line from calculated stress to intercept the curve
- Read natural frequency (fn) on vertical axis

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 sealing product may result in either product damage or personal injury. Please contact Amorim Cork Composites regarding recommendations for specific applications. Amorim Cork Composites expressly disclaims all warranties, including any implied warranties or merchantability or of fitness for a particular purpose. Amorim Cork Composites is not liable for any indirect, special, incidental, consequential, or punitive damages as a result of using the information listed in this material data sheet, any of its brochures, 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).

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