Recycled rubber

VC7500 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.

FEATURES

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

WORK LOAD RANGE [MPA]

Permanent static (MPa) 0,05-0,15 (7,3-21,8 psi)

LOAD RANGE

E-MODULE

Static (MPa) 1,20-1,50 (174-218 psi)
Dynamic (MPa) 2,30-4,30 (333-624psi)

DYNAMIC STIFFNESS [N/MM³]

Elastic Modulus [MPa]

Stress [MPa]

K(Stat) 15mm 15mm 5Hz K(Dyn) 15mm 10Hz K(Dyn) 15mm 40Hz

DENSITY (Kg/m³)

550 (34 lb/ft³)

TECHNICAL FEATURES

- Compression Set (%) 1,6
- Tensile Strength (MPa) >0,25 (36 psi)
- Elongation at break (%) > 60
- Tear-Resistance (N/mm) > 3,5
- Flammability B2

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ELASTIC MODULUS [MPA]
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.

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