



Benefits

- **Excellent acoustic properties**
- **Can be used as simple a/v mounts or for structural isolation.**
- **Can be used for very light loads, achieving high damping ratios and low natural frequencies.**
- **Capable of achieving a natural frequency as low as 7Hz.**
- **Available in 6 different varieties with densities ranging from 150kg/m³ up to and including 680kg/m³. Selection is very much load dependent.**
- **Available in a variety of different thicknesses ranging from 6mm and upwards.**
- **Low compression ratio, combined with excellent resilience.**
- **Individual form designs available upon request.**
- **Supplied in standard easy to handle rolls, 5m x 1.5m.**
- **Excellent recovery properties**
- **Long term life span**
- **100% recyclable**

Description

Regufoam® is a high quality PUR foam specially developed and formulated to attenuate noise and vibrations from all sources ranging from general mechanical plant to hi-tech railway systems. **Regufoam®** products are highly adaptable, acoustically superior and are 100% recyclable.

Applications

Industrial

Used for active isolation of machinery, such as lathes, presses, sensitive measuring equipment and all areas where noise is a general nuisance. Highly recommended to isolate inertia pits and foundation blocks.

Infrastructure

Rail, road and tunnel construction.

Civils

Can be used in the foundations of buildings to isolate the structure from ground-borne noise and vibrations.

General M&E Plant

Provides excellent acoustic properties when isolating general mechanical plant such as, pump and lift motors, air conditioning units, etc.

Construction

Excellent impact resistance properties. Can be used to isolate timber battens, stair treads and general floating floors from impact sound.

Installation Service

In addition to supply of this product CMS Acoustic Solutions offers a competitively-priced installation service anywhere in the UK. Use of our service ensures that installation is performed to the highest standards by tradesmen fully experienced in the specialist skills of fitting acoustic materials correctly. For further details contact our technical team on 01925 577711.

Physical & Technical Information

See table overleaf.

Physical & Technical Information

| Regufoam® | 150 | 220 | 300 | 400 | 510 | 680 |
|---|------------|-----------|-----------|-----------|-----------|---------|
| Colour | Beige | Purple | Turquoise | Brick red | Orange | Brown |
| Density (kg/m ³) to DIN53420 | 150 | 220 | 300 | 400 | 510 | 680 |
| Load Bearing Range (N/mm ²) | 0.01 | 0.025 | 0.05 | 0.1 | 0.2 | 0.4 |
| Bedding modulus to DIN 18134* | 0.0038 | 0.011 | 0.025 | 0.037 | 0.072 | 0.327 |
| Compression set to DIN 53572** | 2.5 | <4.0 | 2.2 | 2.4 | 2.8 | 2.9 |
| Tensile strength (N/mm ²) to DIN 53571 (minimum value) | 0.42 | 0.56 | 0.78 | 1.3 | 1.5 | 2.47 |
| Elongation at break (%) to DIN 53571 (minimum value) | 270 | 260 | 240 | 290 | 260 | 310 |
| Tear resistance (N/mm) to DIN 53515 (minimum value) | 2.65 | 3.38 | 4.85 | 7.38 | 8.28 | 14.4 |
| Mechanical Loss factor to DIN 53513 | 0.25 | 0.20 | 0.14 | 0.1 | 0.1 | 0.08 |
| Inflammability to DIN 4102 | B2 | B2 | B2 | B2 | B2 | B2 |
| Static Modulus of Elasticity (N/mm ²) | 0.025-0.16 | 0.05-0.38 | 0.14-0.75 | 0.39-1.27 | 1.49-2.25 | 3.0-3.9 |
| Dynamic Modulus of Elasticity (N/mm ²) DIN 53513 [†] | 0.11-0.32 | 0.3-0.69 | 0.6-1.3 | 1.07-1.8 | 2.63-3.35 | 4.8-5.6 |
| Permanent static load range (N/mm ²) | 0-0.01 | 0-0.025 | 0-0.05 | 0-0.1 | 0-0.2 | 0-0.4 |
| Permanent and variable static load range (N/mm ²) | 0-0.015 | 0-0.035 | 0-0.08 | 0-0.15 | 0-0.3 | 0-0.6 |
| Rare & short term loads / load peaks (N/mm ²) | Up to 0.5 | Up to 1.0 | Up to 2 | Up to 3 | Up to 4 | Up to 5 |

* Measured at a maximum continuous load of 0.10N/mm² and a material thickness of 25mm

** Measured 30 minutes after decompression with 50% deformation/23°C after 70hrs

† Dependent on load frequency

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