

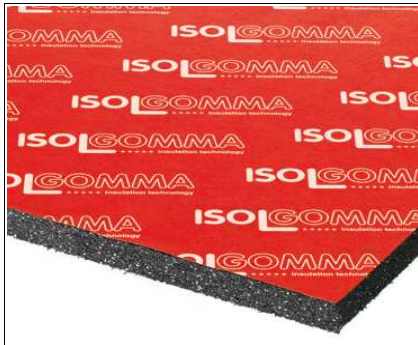
TECHNICAL DATA

Megamat ME50/800



ISOLOGOMMA
***** Insulation technology

Via Dell'Artigianato Z.I. - 36020 - Albettono(VI) - Italy
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Product description and Technical Specification

Anti-vibration material supplied in panels, thickness 50 mm, produced using fibres and granules of SBR rubber (Stirene Butadiene Rubber) and granules of EPDM rubber (Ethylene Propylene Diene Monomer), selected and compacted using a polyurethane glue in a hot process. A non-woven, non-stretch synthetic membrane is applied on one side of panel, for added protection; density 800 kg/m³. Panels dimensions are m 1 length, m 1 width.

Application

Vibration insulation for floating floors or direct basement of machinery operating in cyclic or impulsive way

| PHYSICAL CHARACTERISTICS | Unit | Value | Tolerance |
|---------------------------|-------------------|-----------|-----------|
| Nominal thickness | mm | 50 | ± 5% |
| Length | m | 1.0 | ± 1% |
| Width | m | 1.0 | ± 1% |
| Density (without backing) | kg/m ³ | 800 | ± 5% |
| Backing superficial mass | g/m ² | 50 | |
| Overall Superficial mass | kg/m ² | 40.0 | ± 5% |
| Colour | | black/red | |

| TECHNICAL CHARACTERISTICS | Norm | Unit | Value | Tolerance |
|---|----------|-------------------|-----------|-----------|
| Stress at strain 10% | EN 826 | N/mm ² | 0.210 | ± 10% |
| Static Modulus of Elasticity (Es) - strain 10% | EN 826 | N/mm ² | 2.100 | ± 10% |
| Dynamic Modulus of Elasticity (Ed) - strain 10% | | N/mm ² | 8.1 ÷ 9.2 | ± 10% |
| Static Shear Modulus (Gs) | ISO 1827 | N/mm ² | 0.34 | ± 10% |
| Natural frequency (fn) - strain 10% | | Hz | 11 | ± 2 |

| PHYSICAL AND CHEMICAL PROPERTIES | | | |
|----------------------------------|----------|----------------|--|
| Temperature range of use | | -20°C ÷ +110°C | |
| Inflammability | DIN 4102 | B2 | |

| PACKING AND STORING | | | |
|---|----------------|-------------|--|
| Product surface per pallet | m ² | 35 | |
| Pallet dimension | m x m | 1,05 x 1,05 | |
| Number of panels per pallet | n° | 35 | |
| Each pallet is wrapped and protected with a polythene film. | | | |

| INSTALLATION INSTRUCTIONS | |
|---|--|
| The panels have to be installed butt jointed to each other and fixed using polyurethane adhesive. We suggest all joints are sealed with our "Stik", self-adhesive tape. | |

| HEALTH & SAFETY | |
|--|--|
| This is not a dangerous material, therefore it is not subject to the European directive 67/648/CEE . | |

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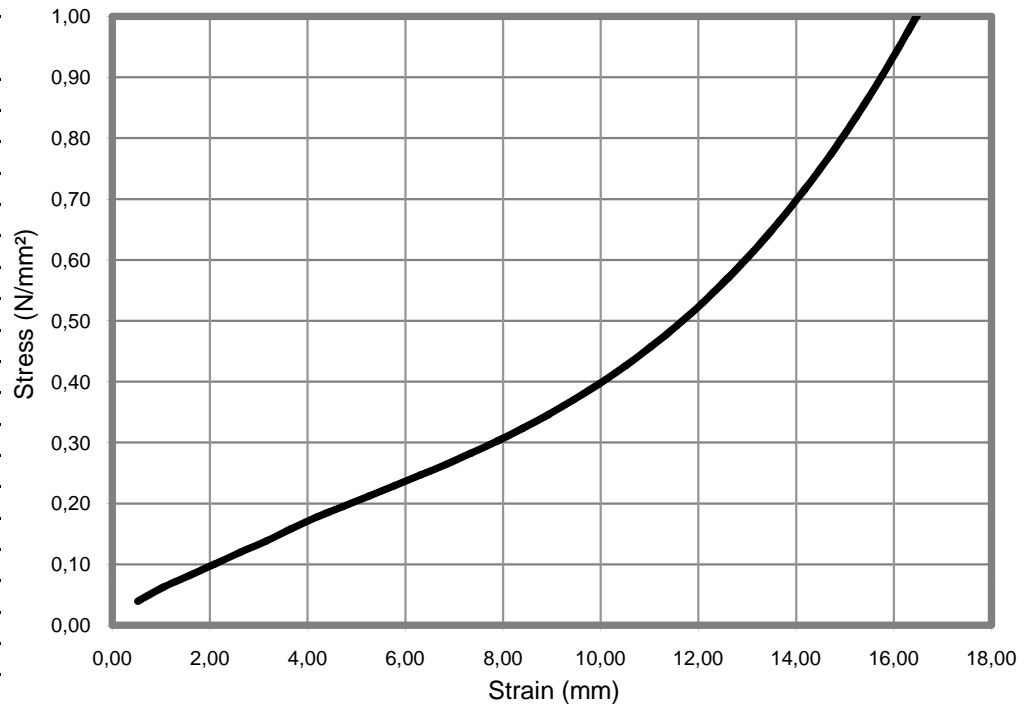


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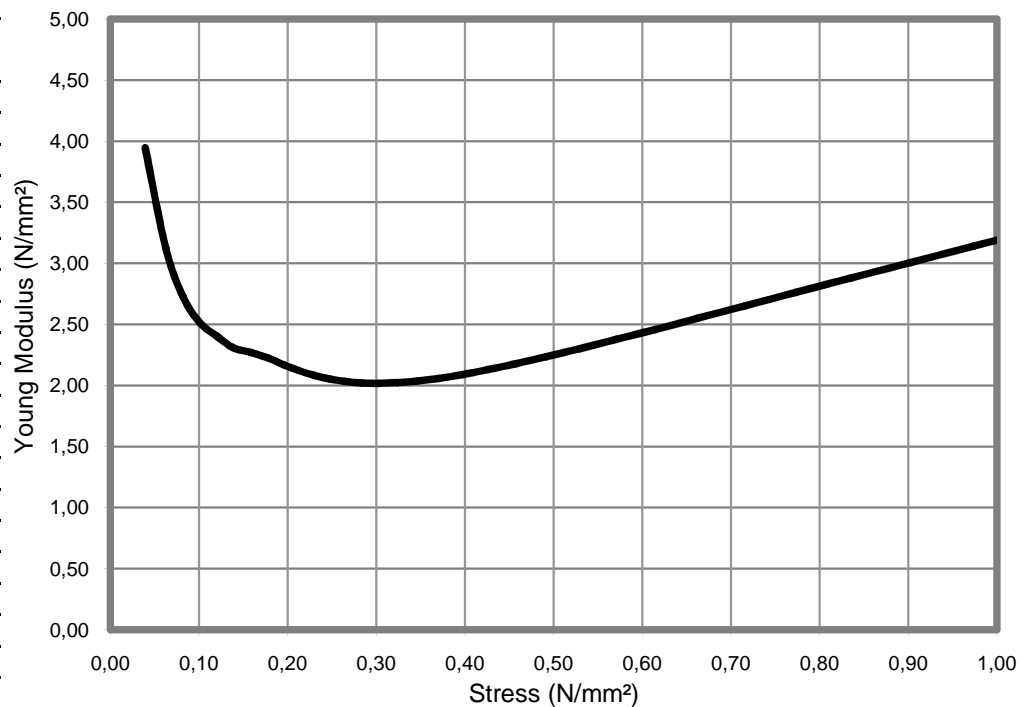
Compression - EN 826

| Strain (mm) | Stress (N/mm ²) |
|-------------|-----------------------------|
| 0.53 | 0.039 |
| 1.58 | 0.082 |
| 2.63 | 0.120 |
| 3.68 | 0.159 |
| 4.73 | 0.195 |
| 5.78 | 0.229 |
| 6.83 | 0.264 |
| 7.88 | 0.303 |
| 8.93 | 0.346 |
| 9.98 | 0.397 |
| 11.03 | 0.457 |
| 12.08 | 0.529 |
| 13.13 | 0.615 |
| 14.18 | 0.716 |
| 15.23 | 0.835 |
| 16.28 | 0.974 |
| 17.33 | 1.135 |
| 18.39 | 1.320 |
| 19.44 | 1.531 |
| 20.49 | 1.770 |



Static Modulus of Elasticity

| Stress (N/mm ²) | Young Modulus (N/mm ²) |
|-----------------------------|------------------------------------|
| 0.039 | 3.947 |
| 0.082 | 2.728 |
| 0.120 | 2.402 |
| 0.159 | 2.269 |
| 0.195 | 2.169 |
| 0.229 | 2.083 |
| 0.264 | 2.033 |
| 0.303 | 2.017 |
| 0.346 | 2.036 |
| 0.397 | 2.089 |
| 0.457 | 2.178 |
| 0.529 | 2.301 |
| 0.615 | 2.459 |
| 0.716 | 2.652 |
| 0.835 | 2.880 |
| 0.974 | 3.142 |
| 1.135 | 3.439 |
| 1.320 | 3.771 |
| 1.531 | 4.138 |
| 1.770 | 4.540 |

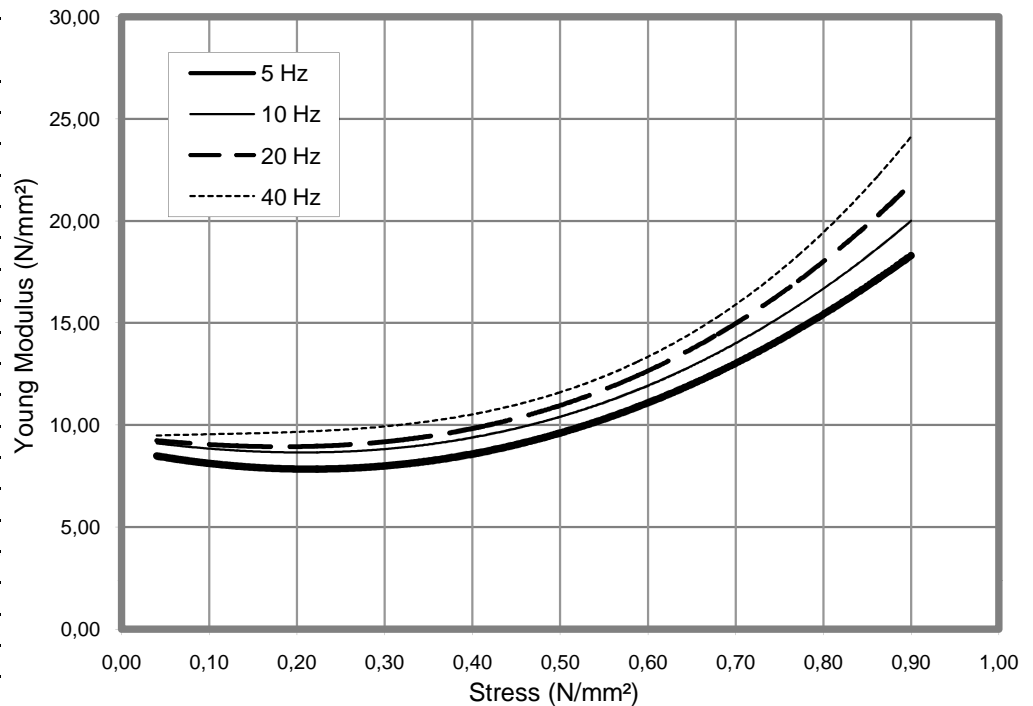


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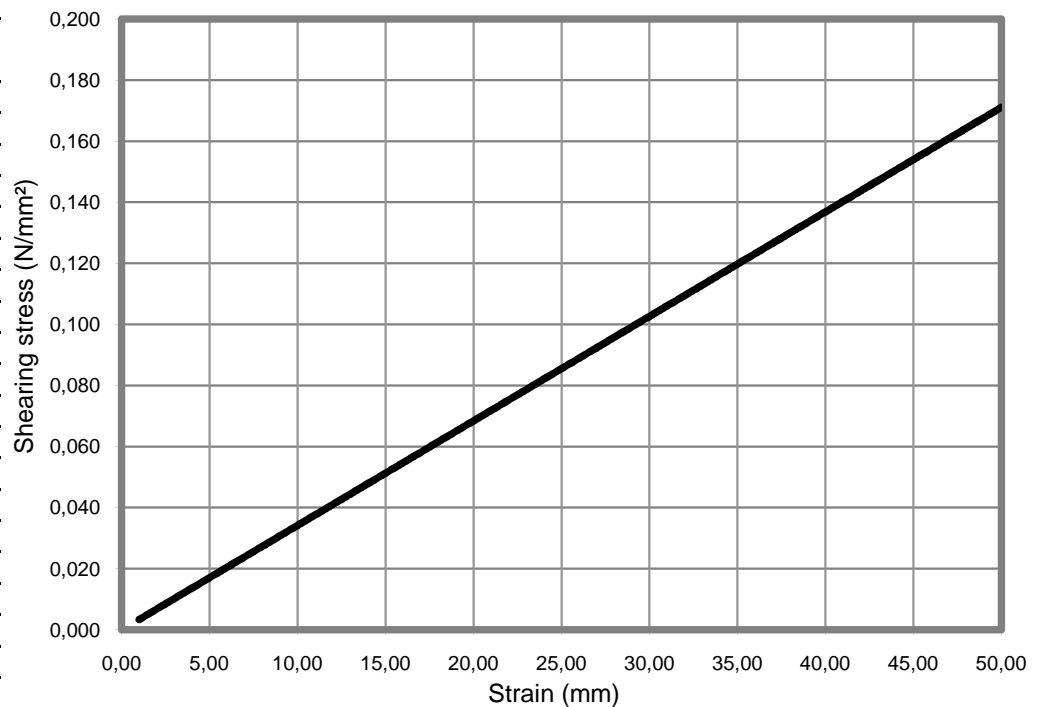
Dynamic Modulus of Elasticity

| Stress (N/mm ²) | Young Modulus (N/mm ²) |
|-----------------------------|------------------------------------|
| 5 Hz | |
| 0.12 | 8.02 |
| 0.20 | 7.80 |
| 0.35 | 8.25 |
| 0.90 | 18.30 |
| 10 Hz | |
| 0.12 | 8.84 |
| 0.20 | 8.57 |
| 0.35 | 9.07 |
| 0.90 | 20.01 |
| 20 Hz | |
| 0.12 | 9.06 |
| 0.20 | 8.84 |
| 0.35 | 9.48 |
| 0.90 | 21.81 |
| 40 Hz | |
| 0.12 | 9.67 |
| 0.20 | 9.43 |
| 0.35 | 10.24 |
| 0.90 | 24.13 |



Horizontal scroll

| Strain (mm) | Shearing stress (N/mm ²) |
|-------------|--------------------------------------|
| 1.00 | 0.00342 |
| 2.00 | 0.00684 |
| 3.00 | 0.01026 |
| 4.00 | 0.01368 |
| 5.00 | 0.01710 |
| 6.00 | 0.02052 |
| 7.00 | 0.02394 |
| 8.00 | 0.02736 |
| 9.00 | 0.03078 |
| 10.00 | 0.03420 |
| 11.00 | 0.03762 |
| 12.00 | 0.04104 |
| 13.00 | 0.04446 |
| 14.00 | 0.04788 |
| 15.00 | 0.05130 |
| 16.00 | 0.05472 |
| 17.00 | 0.05814 |
| 18.00 | 0.06156 |
| 19.00 | 0.06498 |
| 20.00 | 0.06840 |



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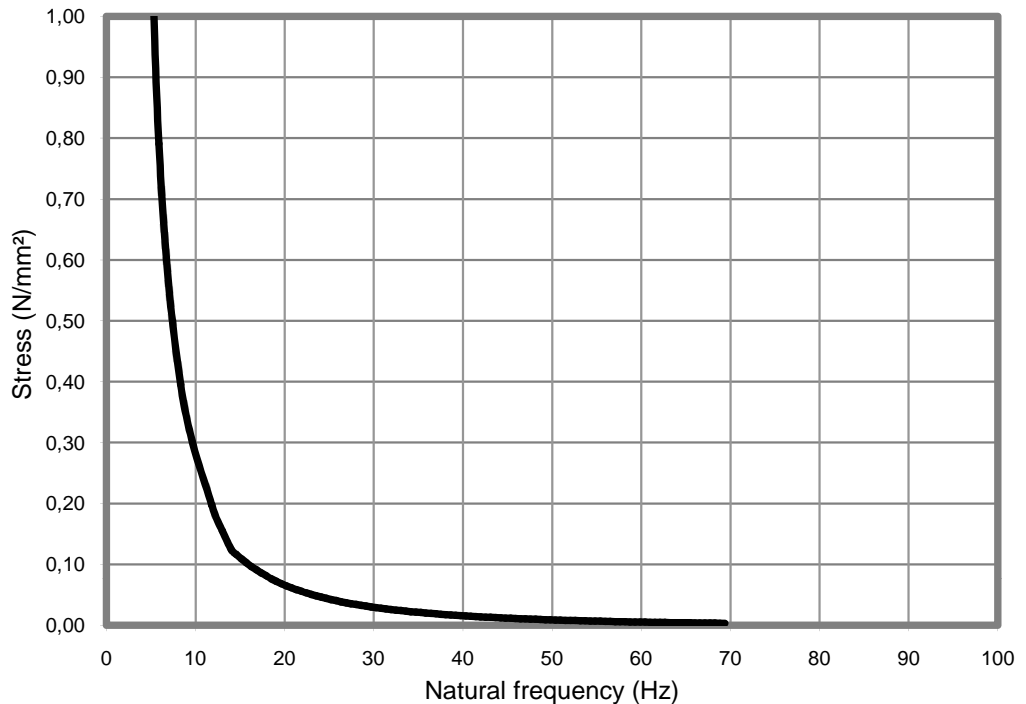


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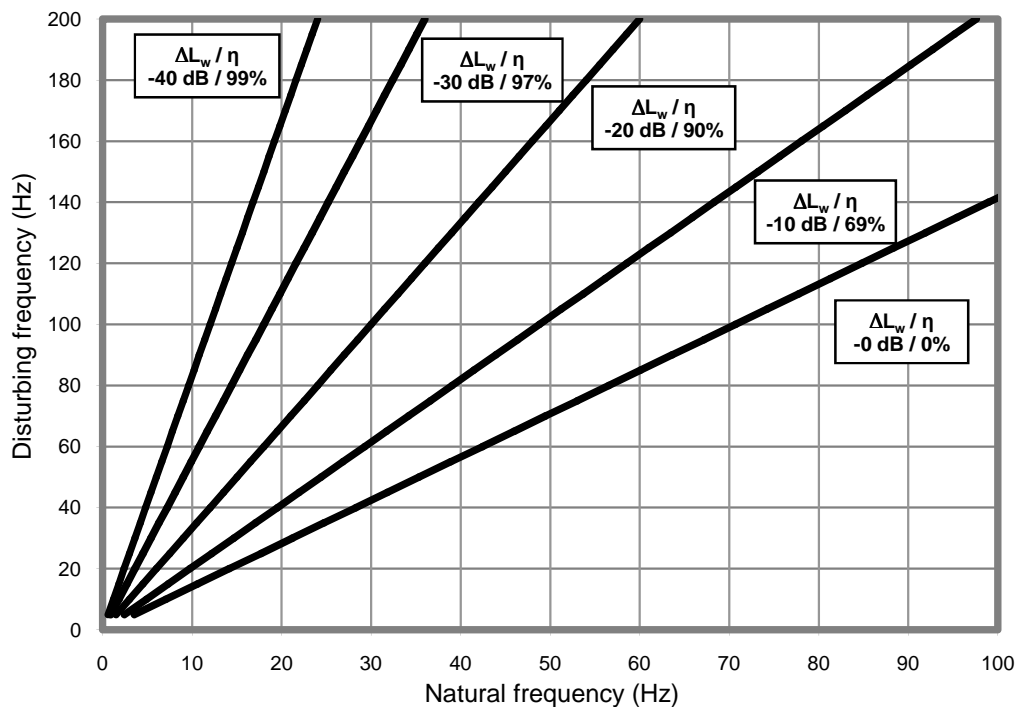
Natural frequency

| Natural (Hz) | Stress (N/mm ²) |
|--------------|-----------------------------|
| 5 | 1.5812 |
| 10 | 0.3953 |
| 15 | 0.1161 |
| 20 | 0.0686 |
| 25 | 0.0441 |
| 30 | 0.0303 |
| 35 | 0.0217 |
| 40 | 0.0160 |
| 45 | 0.0119 |
| 50 | 0.0090 |
| 55 | 0.0069 |
| 60 | 0.0054 |
| 65 | 0.0042 |
| 70 | 0.0034 |
| 75 | - |
| 80 | - |
| 85 | - |
| 90 | - |
| 95 | - |
| 100 | - |



Vibration Isolation

| |
|------------------------------|
| ΔL_w |
| Transmission reduction on dB |
| η |
| degree of isolation on % |



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