

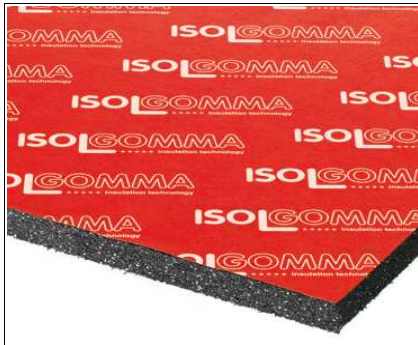
# TECHNICAL DATA

## Megamat ME40/500



**ISOLOGOMMA**  
\*\*\*\*\* Insulation technology

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### Product description and Technical Specification

Anti-vibration material supplied in panels, thickness 40 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 500 kg/m<sup>3</sup>. 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	<b>40</b>	± 5%
Length	m	<b>1.0</b>	± 1%
Width	m	<b>1.0</b>	± 1%
Density (without backing)	kg/m <sup>3</sup>	<b>500</b>	± 5%
Backing superficial mass	g/m <sup>2</sup>	<b>50</b>	
Overall Superficial mass	kg/m <sup>2</sup>	<b>20.0</b>	± 5%
Colour		<b>black/red</b>	

TECHNICAL CHARACTERISTICS	Norm	Unit	Value	Tolerance
Stress at strain 10%	EN 826	N/mm <sup>2</sup>	<b>0.040</b>	± 10%
Static Modulus of Elasticity (Es) - strain 10%	EN 826	N/mm <sup>2</sup>	<b>0.440</b>	± 10%
Dynamic Modulus of Elasticity (Ed) - strain 10%		N/mm <sup>2</sup>	<b>1.4 ÷ 1.8</b>	± 10%
Static Shear Modulus (Gs)	ISO 1827	N/mm <sup>2</sup>	<b>0.16</b>	± 10%
Natural frequency (fn) - strain 10%		Hz	<b>14</b>	± 2

PHYSICAL AND CHEMICAL PROPERTIES			
Temperature range of use		<b>-20°C ÷ +110°C</b>	
Inflammability	DIN 4102	<b>B2</b>	

PACKING AND STORING			
Product surface per pallet	m <sup>2</sup>	<b>40</b>	
Pallet dimension	m x m	<b>1,05 x 1,05</b>	
Number of panels per pallet	n°	<b>40</b>	
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 .	

The suggestions and technical information given above represent our knowledge regarding the properties and the product's uses. ISOLOGOMMA reserve the right to modify or update this data without prior notice. This document is the property of ISOLOGOMMA and all rights are therefore reserved

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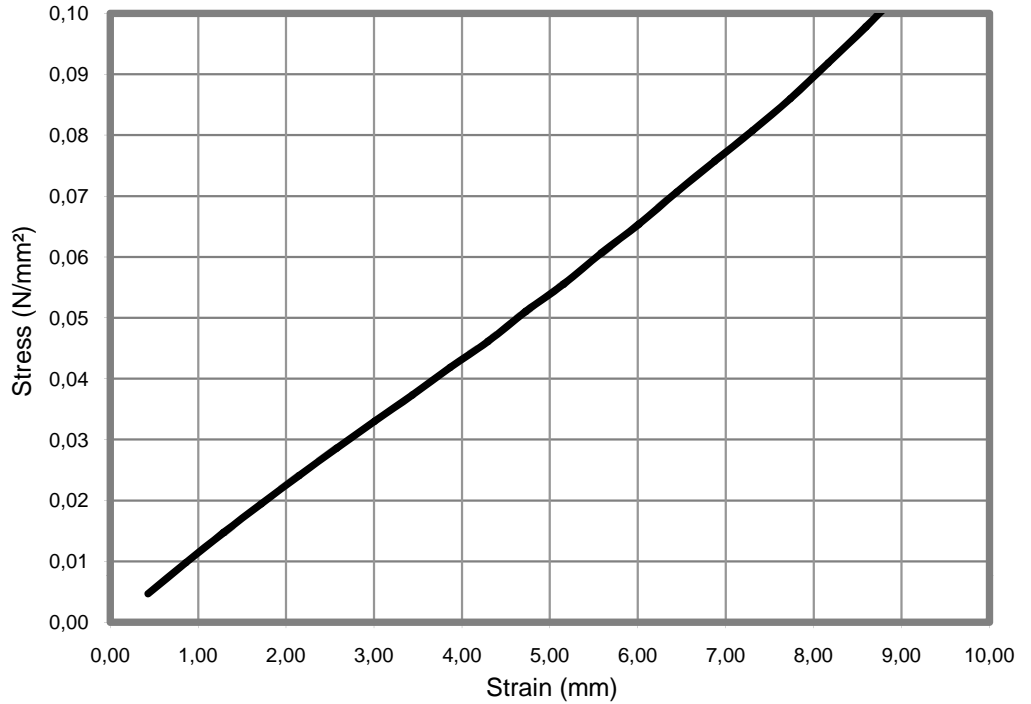


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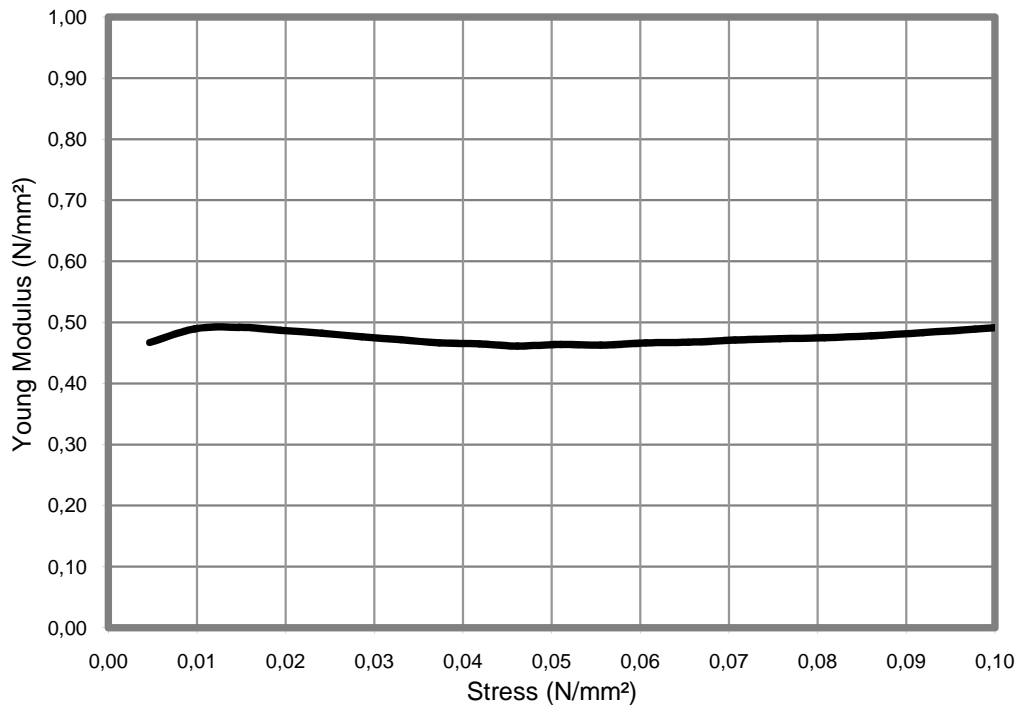
### Compression - EN 826

Strain (mm)	Stress (N/mm <sup>2</sup> )
0.43	0.005
0.86	0.010
1.29	0.015
1.72	0.019
2.15	0.024
2.58	0.029
3.01	0.033
3.44	0.037
3.87	0.042
4.30	0.046
4.73	0.051
5.16	0.056
5.59	0.061
6.02	0.065
6.45	0.071
6.88	0.076
7.30	0.081
7.73	0.086
8.16	0.092
8.59	0.098



### Static Modulus of Elasticity

Stress (N/mm <sup>2</sup> )	Young Modulus (N/mm <sup>2</sup> )
0.005	0.467
0.010	0.490
0.015	0.492
0.019	0.487
0.024	0.482
0.029	0.477
0.033	0.471
0.037	0.467
0.042	0.465
0.046	0.461
0.051	0.464
0.056	0.463
0.061	0.466
0.065	0.467
0.071	0.471
0.076	0.473
0.081	0.475
0.086	0.478
0.092	0.483
0.098	0.489

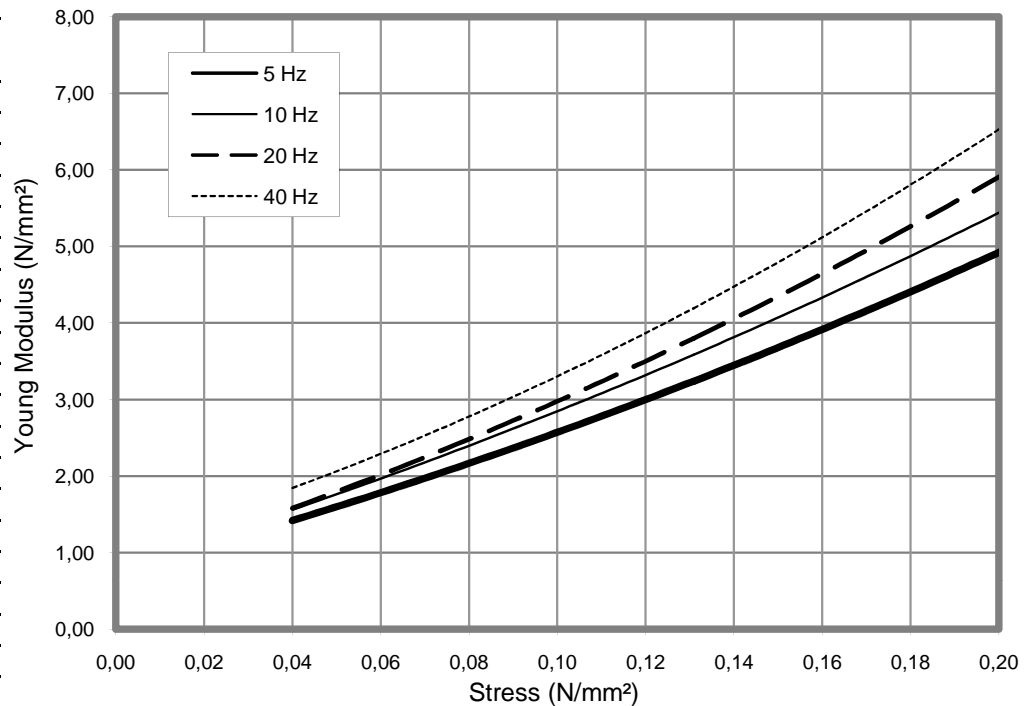


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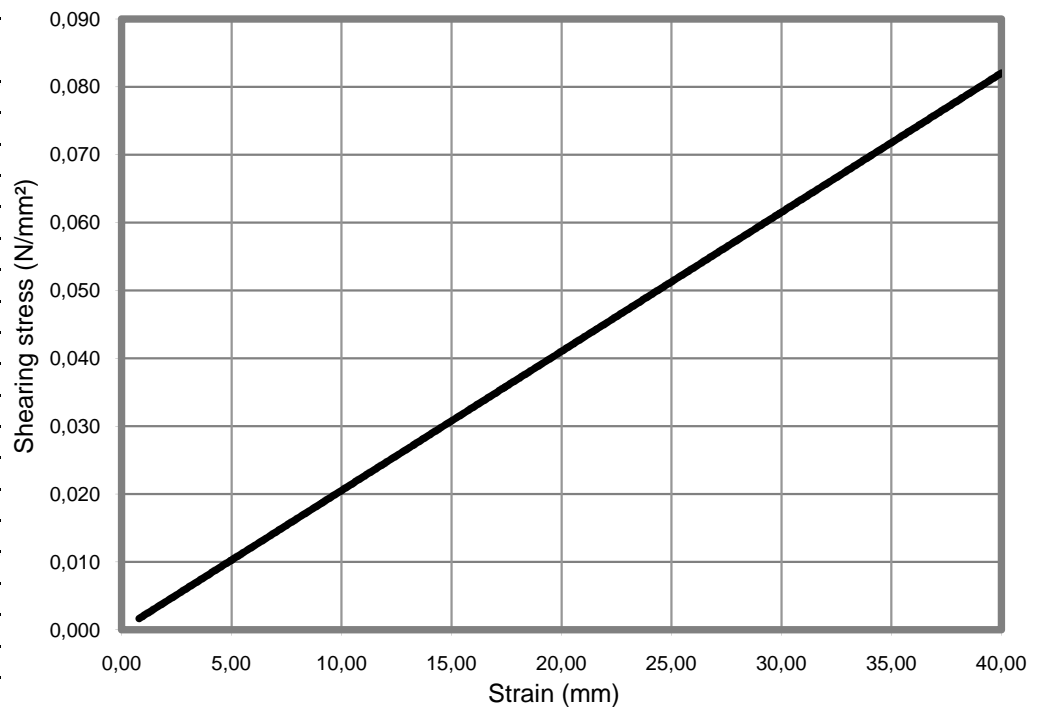
### Dynamic Modulus of Elasticity

Stress (N/mm <sup>2</sup> )	Young Modulus (N/mm <sup>2</sup> )
<b>5 Hz</b>	
0.04	1.43
0.08	2.14
0.12	3.02
0.20	4.92
<b>10 Hz</b>	
0.04	1.57
0.08	2.38
0.12	3.31
0.20	5.46
<b>20 Hz</b>	
0.04	1.59
0.08	2.48
0.12	3.48
0.20	5.93
<b>40 Hz</b>	
0.04	1.80
0.08	2.85
0.12	3.86
0.20	6.50



### Horizontal scroll

Strain (mm)	Shearing stress (N/mm <sup>2</sup> )
0.80	0.00164
1.60	0.00328
2.40	0.00492
3.20	0.00656
4.00	0.00820
4.80	0.00984
5.60	0.01148
6.40	0.01312
7.20	0.01476
8.00	0.01640
8.80	0.01804
9.60	0.01968
10.40	0.02132
11.20	0.02296
12.00	0.02460
12.80	0.02624
13.60	0.02788
14.40	0.02952
15.20	0.03116
16.00	0.03280



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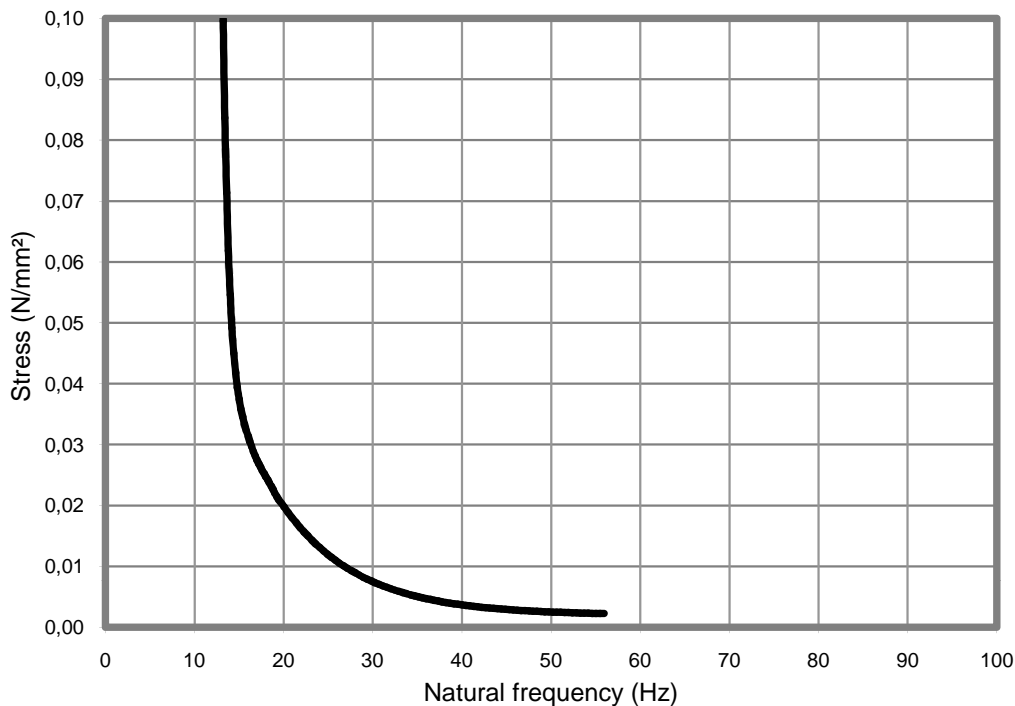


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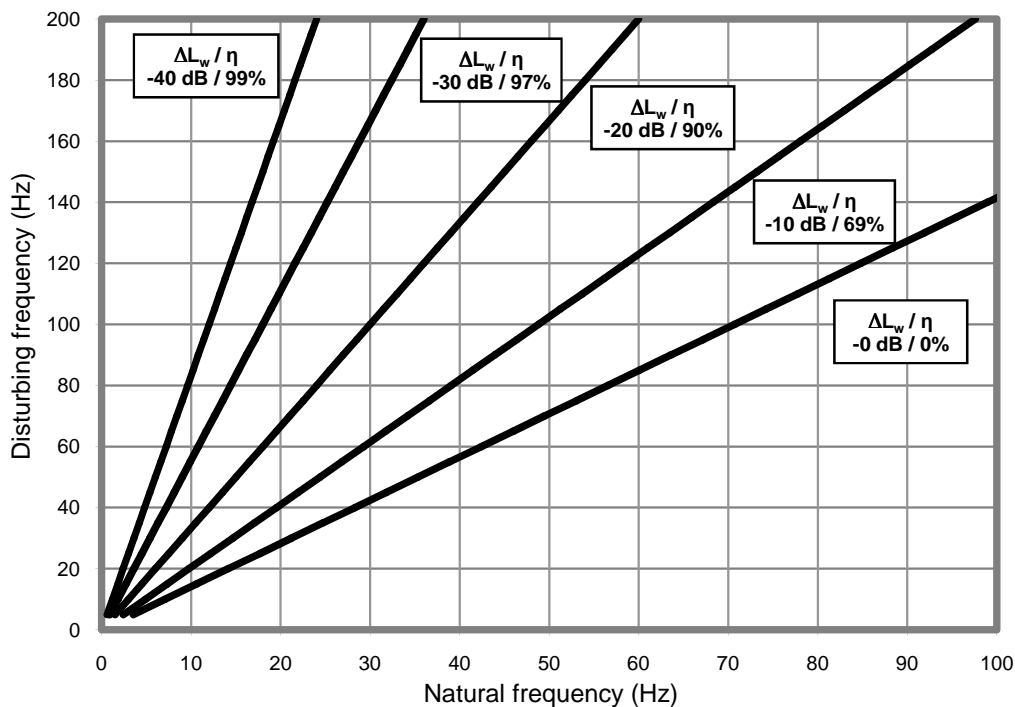
### Natural frequency

Natural (Hz)	Stress (N/mm <sup>2</sup> )
10	-
14	0.0619
16	0.0324
18	0.0252
20	0.0210
22	0.0164
24	0.0137
26	0.0110
28	0.0093
30	0.0076
32	0.0066
34	0.0055
36	0.0049
38	0.0042
40	0.0037
42	0.0034
44	0.0031
46	0.0029
48	0.0027
50	0.0025



### Vibration Isolation

$\Delta L_w$
Transmission reduction on dB
$\eta$
degree of isolation on %



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