

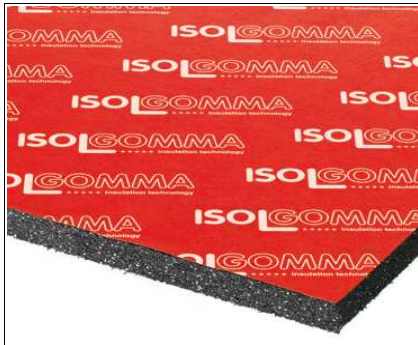
TECHNICAL DATA

Megamat ME20/500



ISOLOGOMMA
***** Insulation technology

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Product description and Technical Specification

Anti-vibration material supplied in panels, thickness 20 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/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	20	± 5%
Length	m	1.0	± 1%
Width	m	1.0	± 1%
Density (without backing)	kg/m ³	500	± 5%
Backing superficial mass	g/m ²	50	
Overall Superficial mass	kg/m ²	10.0	± 5%
Colour		black/red	

TECHNICAL CHARACTERISTICS	Norm	Unit	Value	Tolerance
Stress at strain 10%	EN 826	N/mm ²	0.055	± 10%
Static Modulus of Elasticity (Es) - strain 10%	EN 826	N/mm ²	0.561	± 10%
Dynamic Modulus of Elasticity (Ed) - strain 10%		N/mm ²	1.7 ÷ 2.2	± 10%
Static Shear Modulus (Gs)	ISO 1827	N/mm ²	0.16	± 10%
Natural frequency (fn) - strain 10%		Hz	20	± 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	90	
Pallet dimension	m x m	1,05 x 1,05	
Number of panels per pallet	n°	90	
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.	

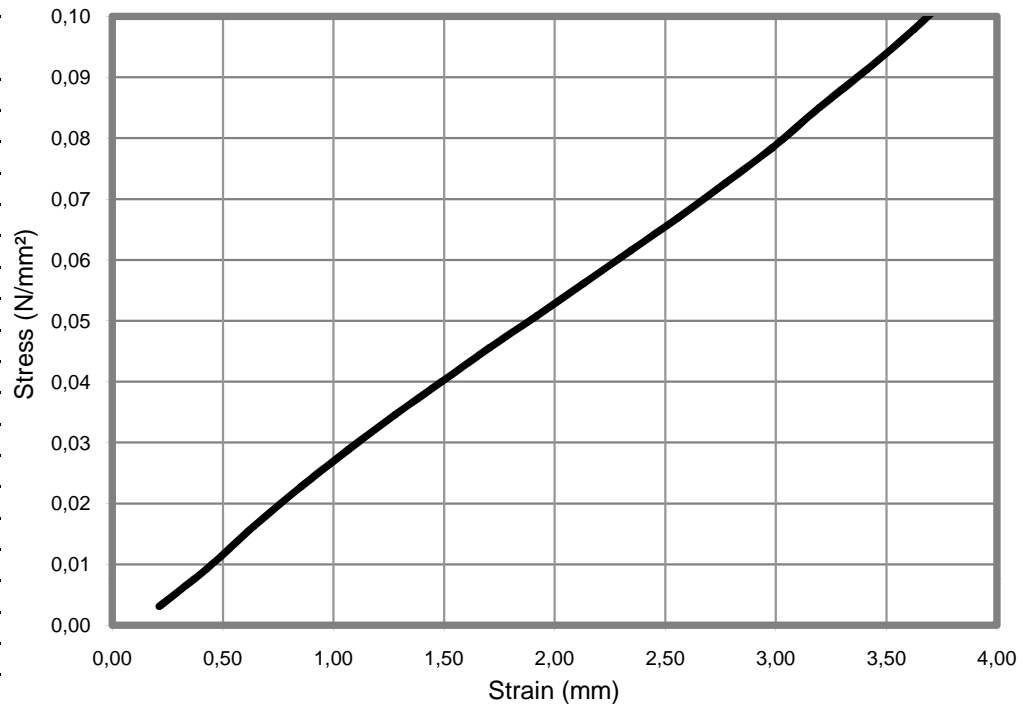
HEALTH & SAFETY	
This is not a dangerous material, therefore it is not subject to the European directive 67/648/CEE .	

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



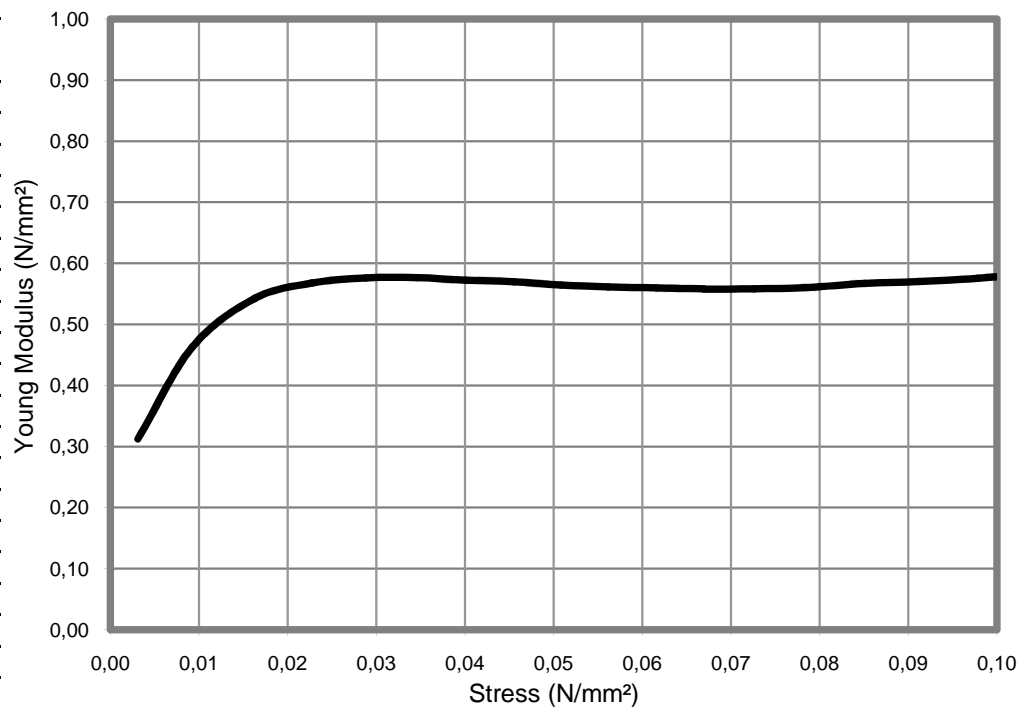
Compression - EN 826

Strain (mm)	Stress (N/mm ²)
0.21	0.003
0.43	0.009
0.64	0.016
0.85	0.023
1.07	0.029
1.28	0.035
1.49	0.040
1.71	0.046
1.92	0.051
2.13	0.056
2.35	0.062
2.56	0.067
2.77	0.073
2.98	0.078
3.20	0.085
3.41	0.091
3.62	0.098
3.84	0.105
4.05	0.113
4.26	0.121



Static Modulus of Elasticity

Stress (N/mm ²)	Young Modulus (N/mm ²)
0.003	0.312
0.009	0.463
0.016	0.542
0.023	0.568
0.029	0.576
0.035	0.576
0.040	0.572
0.046	0.569
0.051	0.564
0.056	0.561
0.062	0.560
0.067	0.558
0.073	0.558
0.078	0.560
0.085	0.567
0.091	0.570
0.098	0.575
0.105	0.584
0.113	0.595
0.121	0.607

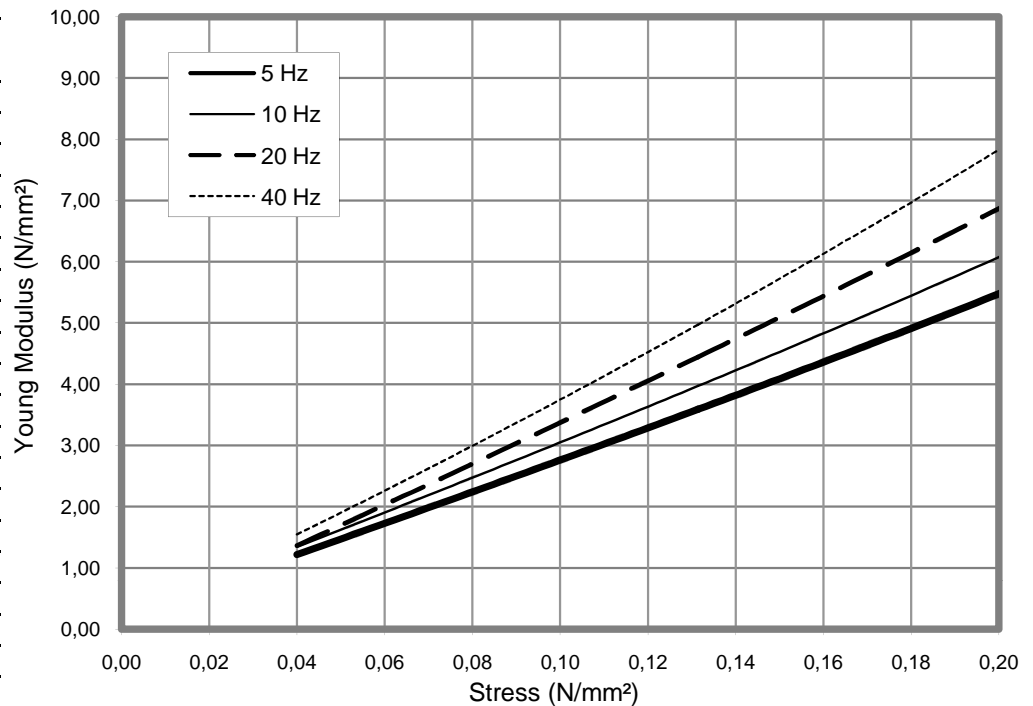


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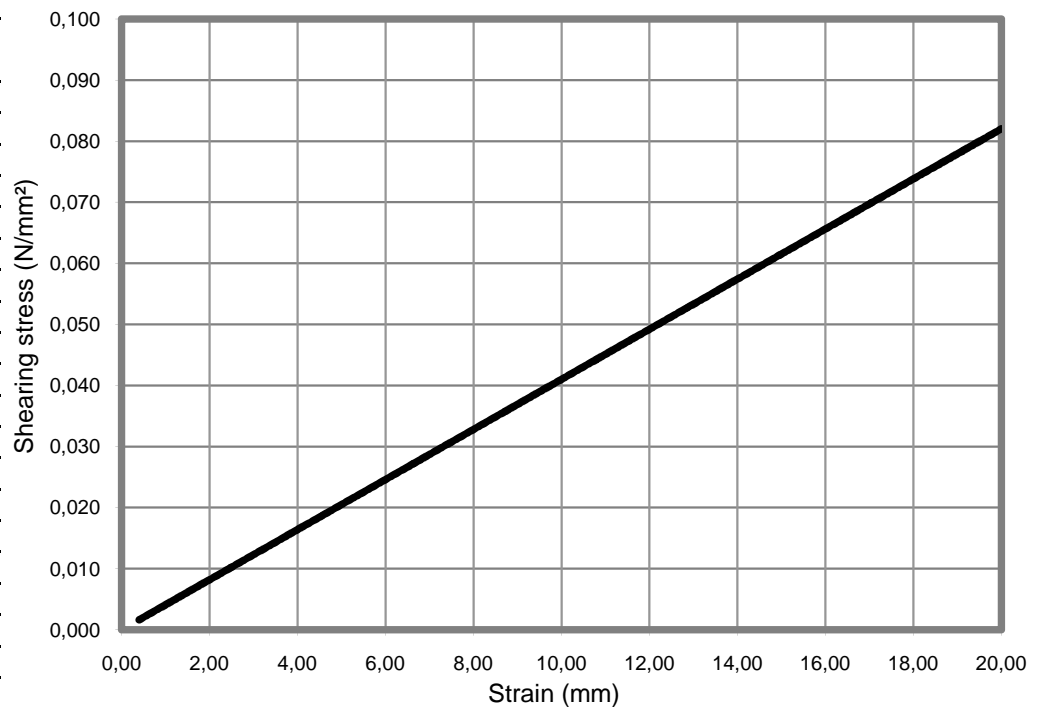
Dynamic Modulus of Elasticity

Stress (N/mm ²)	Young Modulus (N/mm ²)
5 Hz	
0.04	1.32
0.08	2.20
0.12	3.07
0.20	5.68
10 Hz	
0.04	1.44
0.08	2.47
0.12	3.36
0.20	6.31
20 Hz	
0.04	1.49
0.08	2.62
0.12	3.81
0.20	7.11
40 Hz	
0.04	1.76
0.08	2.74
0.12	4.36
0.20	8.09



Horizontal scroll

Strain (mm)	Shearing stress (N/mm ²)
0.40	0.00164
0.80	0.00328
1.20	0.00492
1.60	0.00656
2.00	0.00820
2.40	0.00984
2.80	0.01148
3.20	0.01312
3.60	0.01476
4.00	0.01640
4.40	0.01804
4.80	0.01968
5.20	0.02132
5.60	0.02296
6.00	0.02460
6.40	0.02624
6.80	0.02788
7.20	0.02952
7.60	0.03116
8.00	0.03280

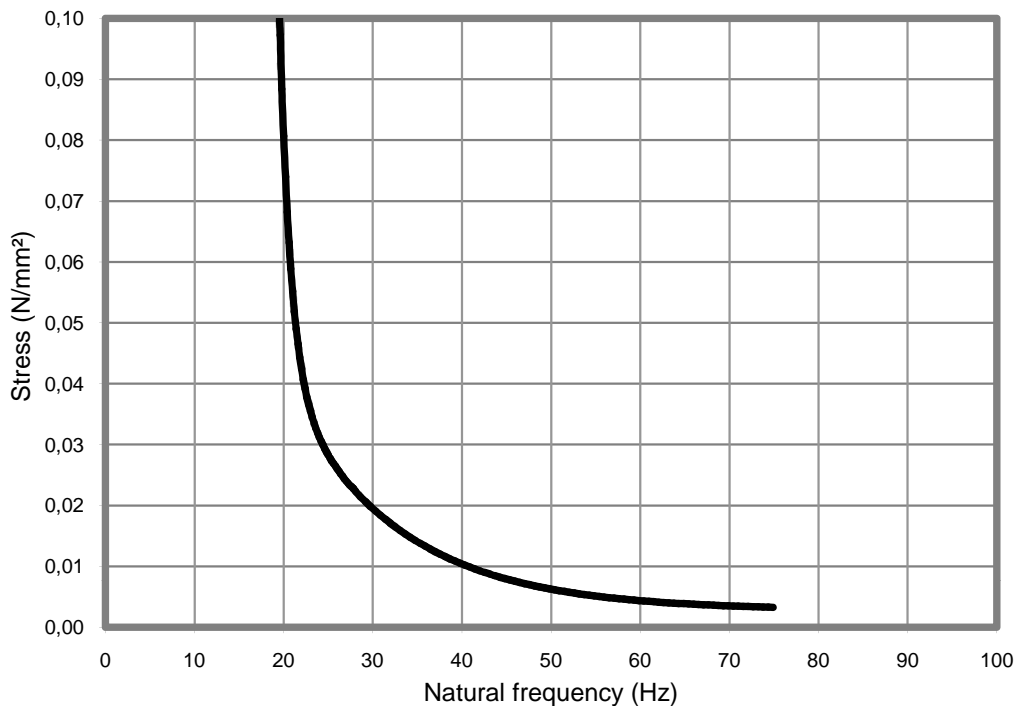


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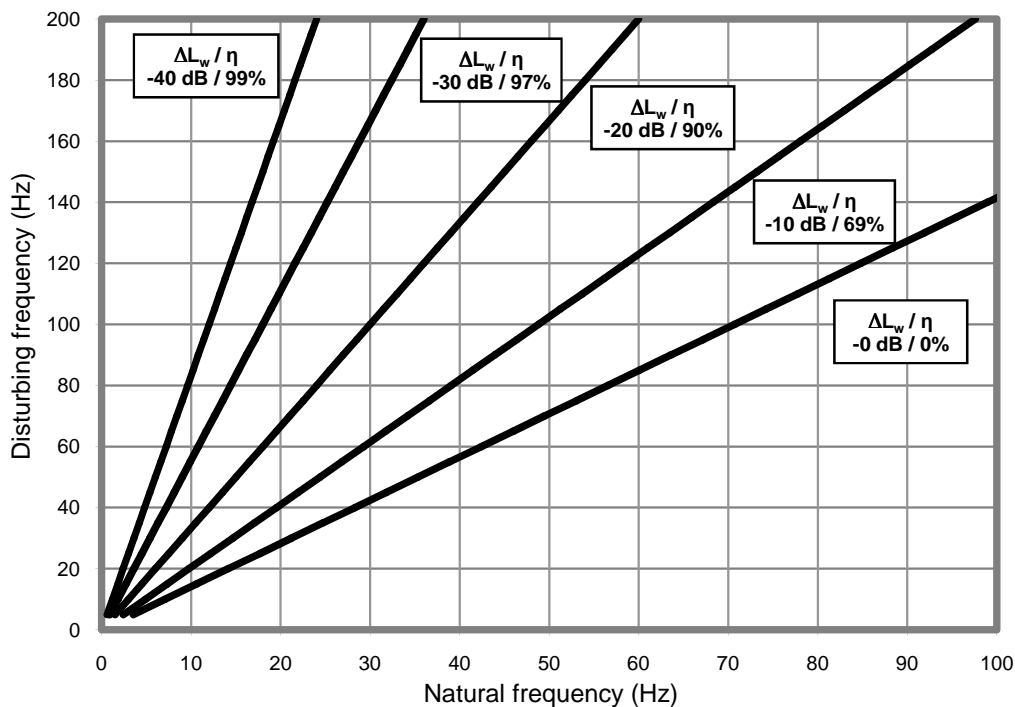
Natural frequency

Natural (Hz)	Stress (N/mm ²)
20	0.0883
22	0.0443
24	0.0319
26	0.0264
28	0.0227
30	0.0199
32	0.0171
34	0.0153
36	0.0133
38	0.0120
40	0.0105
42	0.0096
44	0.0085
46	0.0076
50	0.0063
55	0.0052
60	0.0044
65	0.0039
70	0.0035
75	0.0033



Vibration Isolation

ΔL_w
Transmission reduction on dB
η
degree of isolation on %



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