

# MEGAMAT 500

## VIBRATION CONTROL



VIBRATION INSULATION PANEL MADE OF END-OF-LIFE TYRES RUBBER GRANULES AND FIBRES

### ■ TECHNICAL SPECIFICATION

Anti-vibration material supplied in panels, thickness 12,5/25/50 mm, made of rubber granules and fibres from End-of-Life Tyres (ELTs) compacted using a polyurethane binder 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 1,20 length, m 0,80 width. To be used for static and dynamic loads up to 0.25 N/mm<sup>2</sup>.



### ■ APPLICATION AREA

Application fields	Load	Deformation
Static	up to 0,05 N/mm <sup>2</sup>	~ 10%
Static and Dynamic	up to 0,25 N/mm <sup>2</sup>	~ 30%
Load peaks (short time)	up to 0,80 N/mm <sup>2</sup>	~ 50%

### ■ TECHNICAL DATA

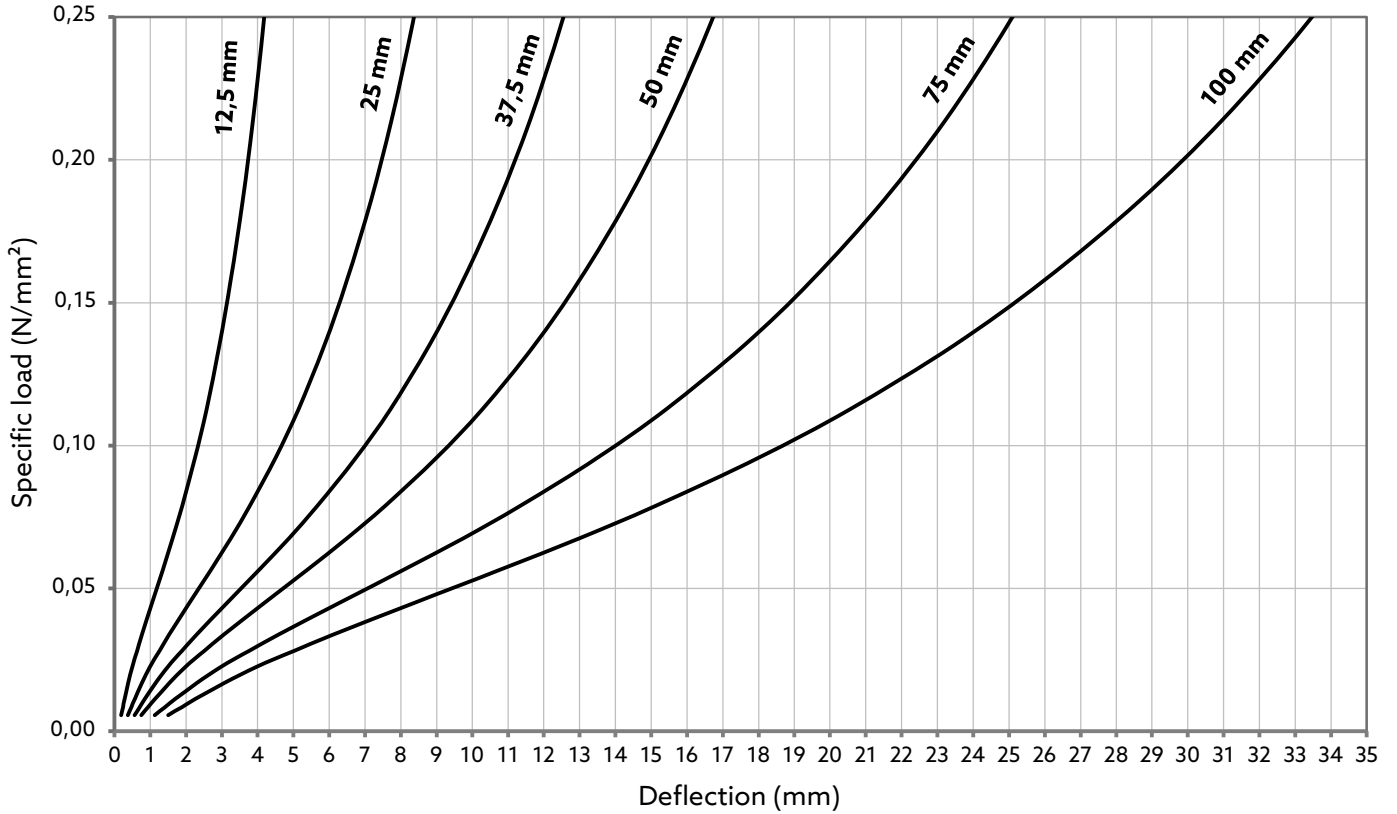
		Tolerance	Standard
Thickness	12,5 - 25 - 50 mm	± 2	
Length	1,20 m	± 2%	
Width	0,80 m	± 2%	
Density	500 kg/m <sup>3</sup>	± 10%	
Stress at strain 10%	0,05 N/mm <sup>2</sup>	± 10%	UNI EN ISO 29470
Static Modulus of Elasticity (Es) - strain 10%	0,55 N/mm <sup>2</sup>	± 10%	UNI EN ISO 29470
Dynamic Modulus of Elasticity (Ed) - strain 10%	1,80 N/mm <sup>2</sup>	± 10%	
Loss factor (η)	0,143	± 10%	
Thermal conductivity coefficient (λ)	0,120		UNI EN 12668
Inflammability	E		UNI EN 13501-2

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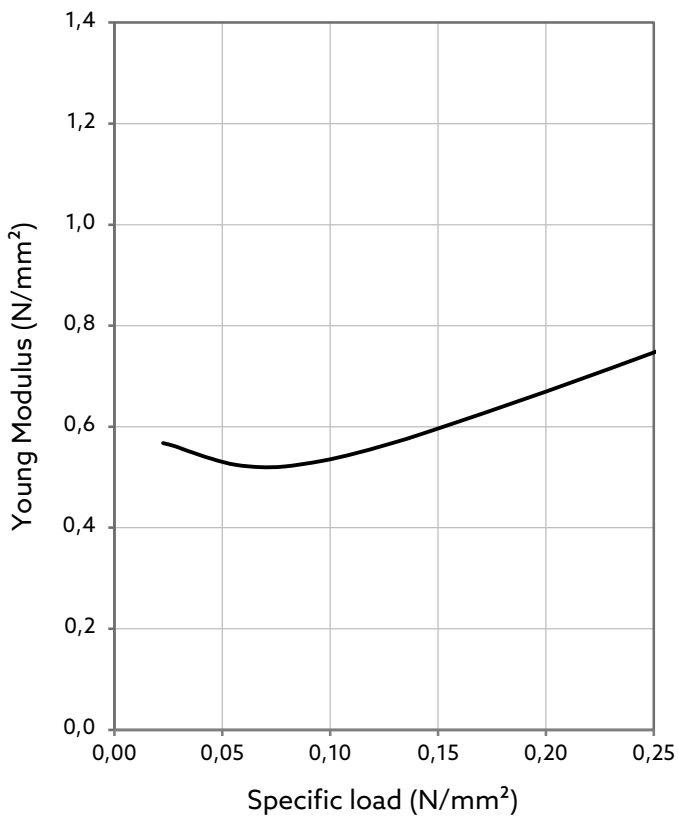
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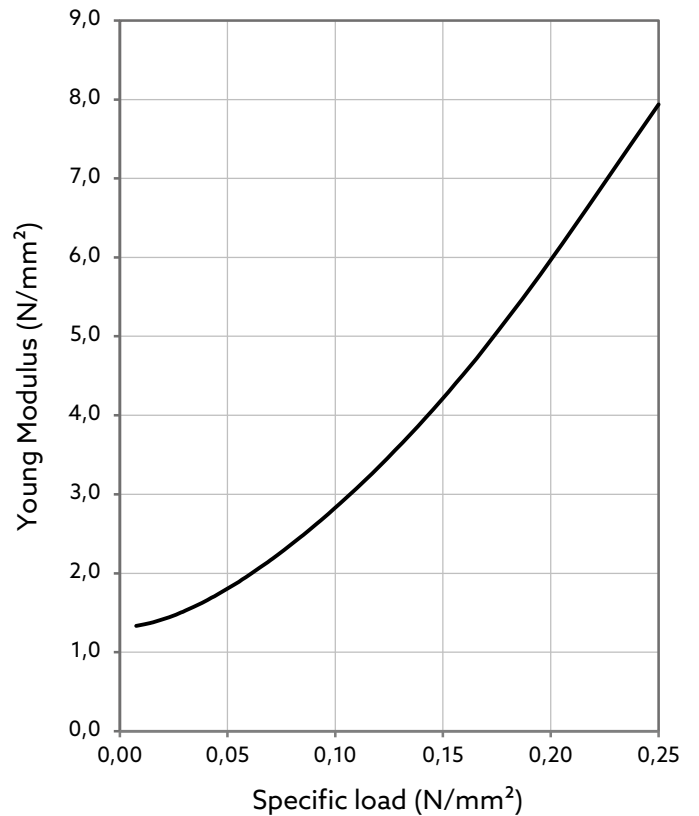
### LOAD DEFLECTION CURVE



### STATIC MODULUS OF ELASTICITY



### DYNAMIC MODULUS OF ELASTICITY

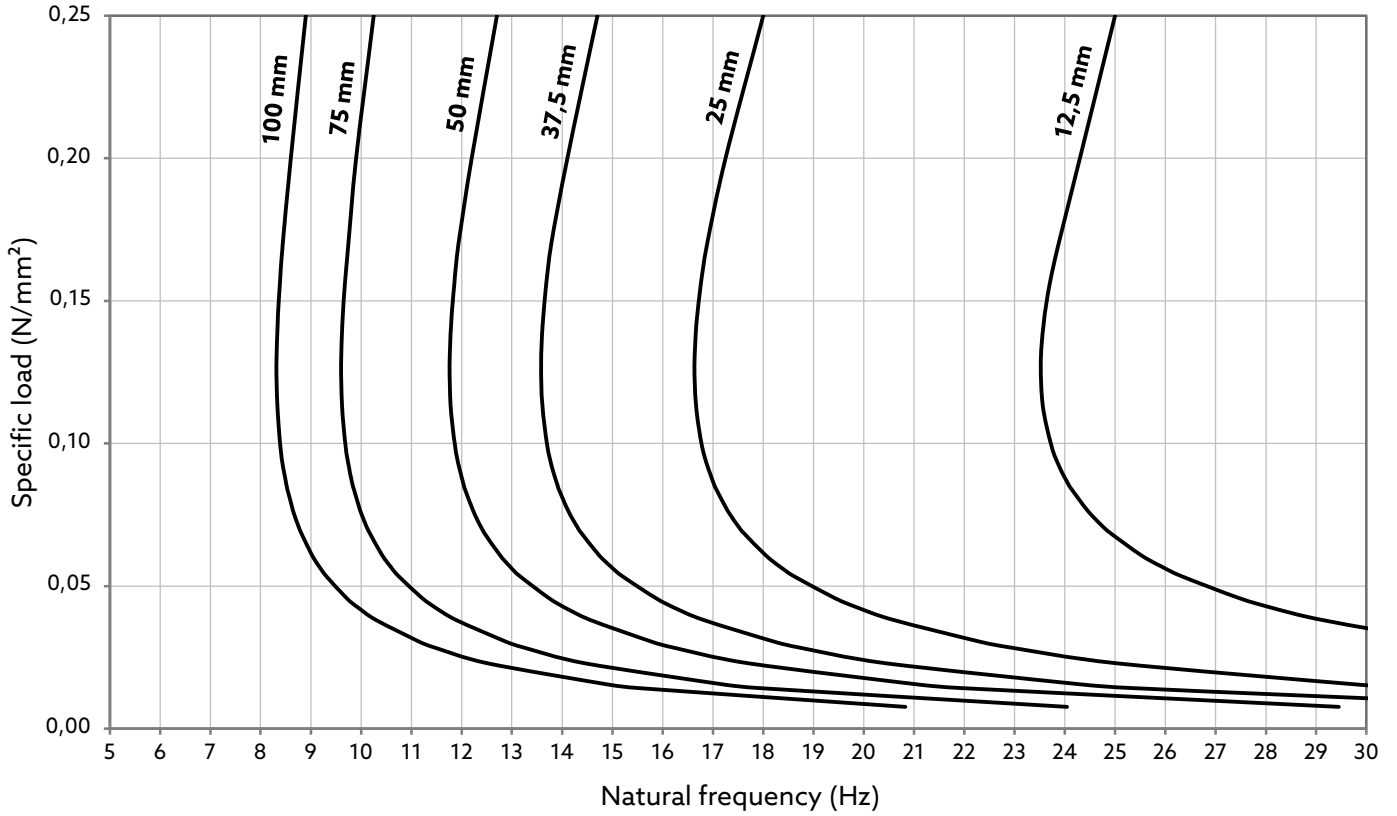


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### NATURAL FREQUENCY



### VIBRATION ISOLATION EFFICIENCY

