

ISOMAT NR44

High Performance Vibration Isolation Material

Why Choose Farrat Isomat NR44?

Farrat Isomat is a range of natural, neoprene and nitrile rubbers moulded into innovatively designed, constant shape-factor sheets to provide load bearing vibration isolation. It is used regularly in both structural and industrial applications around the world as full sheets, strips and individual pads.

Isomat NR44 exploits the properties of the highest grade of 44-IRHD natural rubber to provide very high levels of noise and vibration isolation with negligible damping, and a very low dynamic to static ratio.

Features

- ▶ Materials tested and approved to BS 6177:1982
- ▶ Very high resilience and low damping qualities
- ▶ Low level of creep
- ▶ Long working lifetime (> 60 years)
- ▶ Also available as neoprene CR (for enhanced chemical resistance) and nitrile rubber BR (for enhanced damping)

Applications

Farrat Isomat NR44 can be used in a wide range of vibration isolation applications, such as:

Full Area

- ▶ Full building isolation (raft–slab)
- ▶ Heavyweight partition support

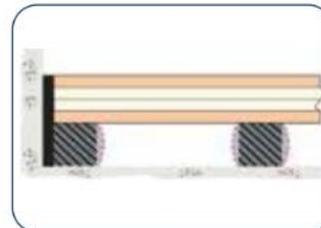
Strips

- ▶ Light/Medium weight partition support
- ▶ Pre – cast concrete supports

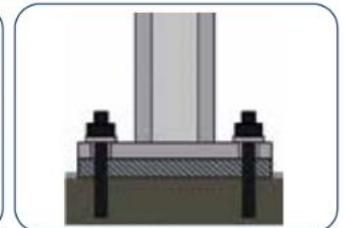
Pads

- ▶ Acoustic floating floor isolators
- ▶ Anti-vibration pads
- ▶ Steel/timber frame isolation
- ▶ Vibration isolation for machinery/plant
- ▶ Isolated foundations for sensitive or high impact machinery

FARRAT ISOMAT NR RANGE:



Isomat NR44 used as floating floor isolators



Isomat NR44 used as steel column isolation

Isomat NR44 site applications:



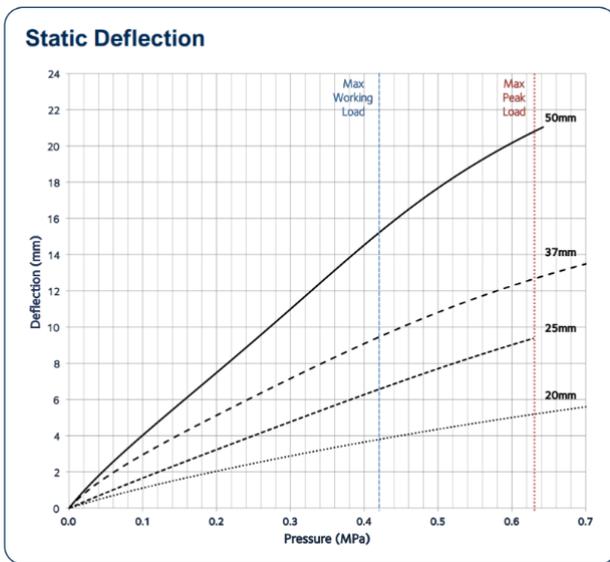
For more information on using Isomat NR44 (including standard details), please see the following Farrat Technical Brochures:

- ▶ Floating Floors
- ▶ Full Building Isolation

Available to download at: www.farrat.com

CHARACTERISTICS	TEST STANDARD	PROPERTIES	UNIT
Hardness	BS ISO 48:2010	44(+/-3)	IRHD
Density	BS EN ISO 845	700	Kg/m ³
Tensile Strength	BS ISO 37:2011	27.2	N/mm ²
Elongation at Break	BS ISO 37: 2011	711	%
Compression Set (24hrs@70°C)	ISO 815 – 1:2008	20	%
Tear Resistance Trouser Method A	ISO 34-1:2010	6.31	kN/m
Static Shear Modulus	BS ISO 1827:2011	0.52	N/mm ²
Creep	ISO 8013:2006	1.3	% per decade

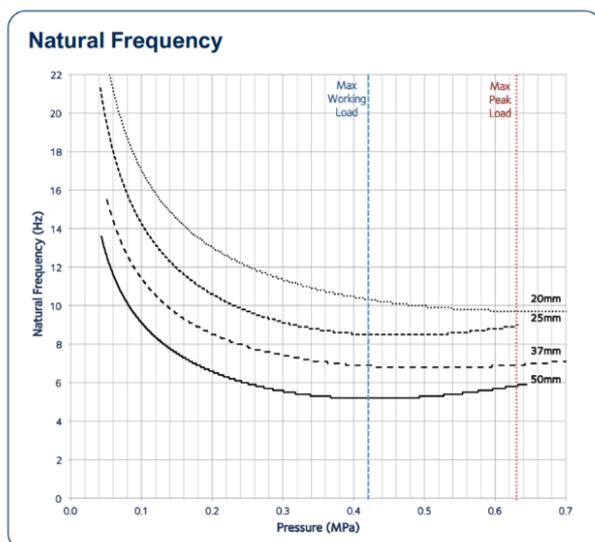
CHARACTERISTICS	TEST STANDARD	PROPERTIES	UNIT
Static Compression Modulus		Varies with load/ thickness – see graphs	
Dynamic to Static Ratio	Determined using in-house test methodology	1.3	N/A
Damping Ratio @ fn		2.0	%
Max Static Pressure (Overload)	Test pad dimensions: 75x75mm	0.42 [0.63]	N/mm ²
Max Residual Compression [Overload]	EN ISO 1856	2.0	%
Standard Sheet Size	+/-10%	1250 x 1000	mm
Operating Temperature	N/A	-30 to + 60	°C
Operational Life	N/A	60	Years



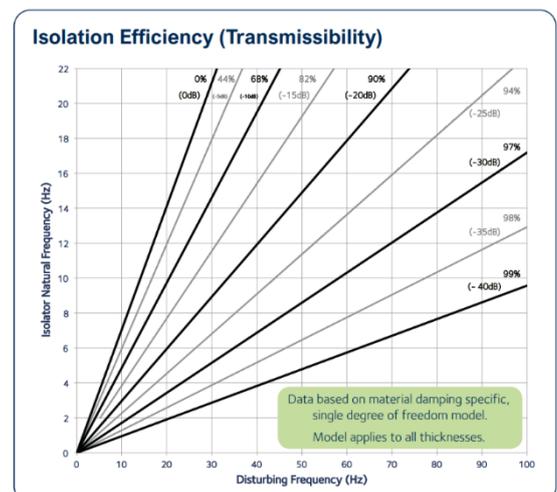
Key



Availability		
Thickness	Tread (Bottom/Top)	Stock
20mm	Isomat/Plain	Non-Stock
25mm	Isomat/Treaded	Stock
37mm	Isomat/Plain	Non-Stock
50mm	Isomat/Treaded	Stock



Typical Lead Times		
Stock	Non-Stock	Bespoke
2-3 working days	2-3 working days	4-6 working days
If cutting is required add +5 days		



All information in this datasheet is for guidance only based on current knowledge and may be subject to change and correction