

GenieMat[®] GBV750

GROUND-BORNE VIBRATION ISOLATION



PRODUCT SPECIFICATIONS

PRODUCT NAME:	GenieMat GBV750
DESCRIPTION:	Dynamically soft rebonded-rubber material capable of withstanding high loads. Used when superior lateral or vertical vibration decoupling is required for building isolation.
APPLICATION:	Optimized for loads up to 108.8 psi (750 kPa)
FEATURES AND BENEFITS:	• Dynamically soft for excellent vibration isolation • Mold, bacteria, fungi, and water resistant • Resistant to long-term creep, deflects uniformly over time • Will not break down or move under load • Easy to install
DIMENSION:	Roll: 4' x 10.5' (nom. 1220 mm x nom. 3200 mm)
THICKNESS:	1" (nom. 25 mm)
WEIGHT:	210 lb/Roll (95.3 kg/Roll)
AREA:	42 ft ² (3.9 m ²)
QUANTITY/PALLET:	9

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TECHNICAL DATA

OPERATING LOAD RANGE:	21.75 - 108.8 psi (150 - 750 kPa)
PEAK LOAD LIMIT:	435 psi (3000 kPa)
CREEP RATE (1000 HOURS @ MAX ALLOWABLE DESIGN LOAD):	1% per decade
MECHANICAL LOSS FACTOR (DIN 53513):	0.14*
TEMPERATURE STABILITY:	-40°F to +176°F (-40°C to +80°C)
THERMAL CONDUCTIVITY (DIN 52612):	0.76 BTU/ft · h · °F (0.133 W/m · K)
THERMAL RESISTANCE:	1.084 ft² · h · °F/BTU (0.191 m² · K/W)
NATURAL FREQUENCY:	Shall not be greater than 11 Hz @ 10442.7 psf (0.5 MPa) loading
40 Hz DYNAMIC MODULUS:	Shall be 1972 psi (13.6 MPa) @ 10442.7 psf (0.5 MPa) loading

*Load and frequency dependent

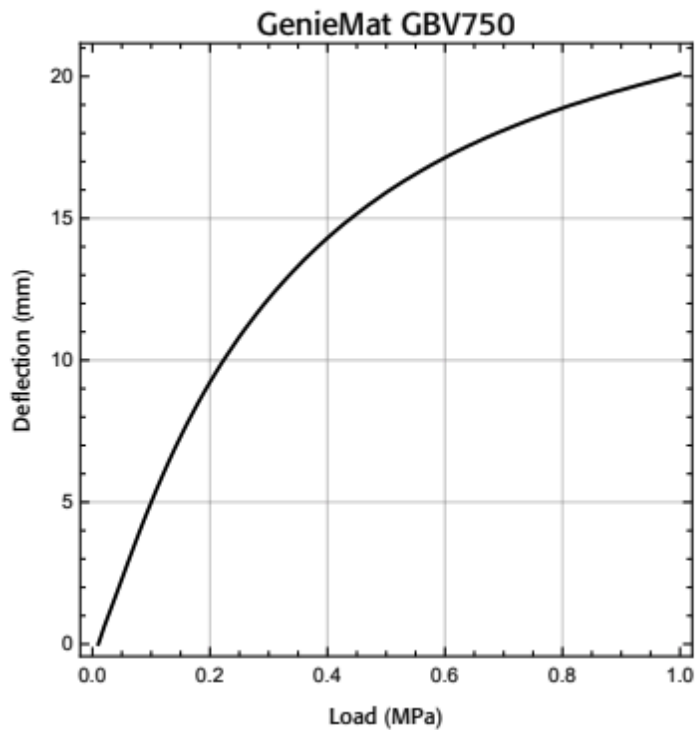


Fig. 1: Applied Load vs Deflection

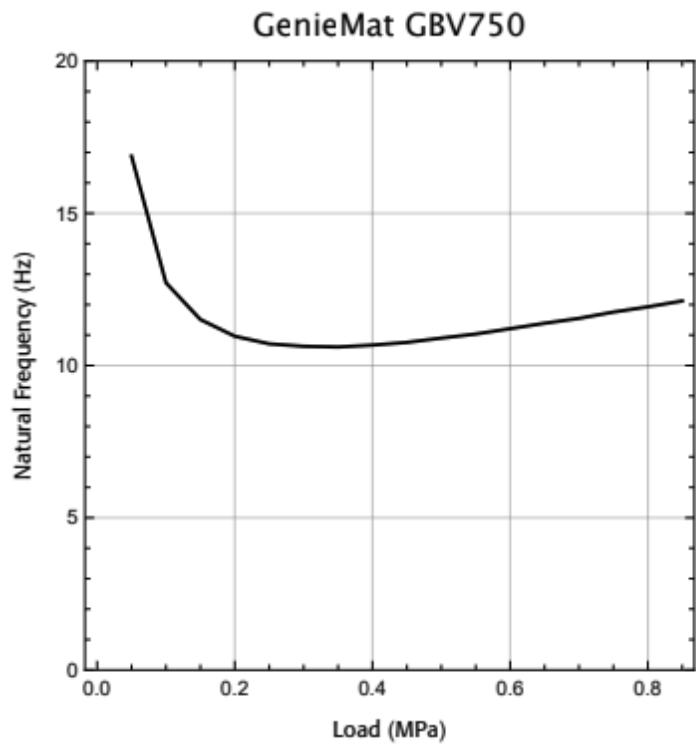


Fig. 2: Applied Load vs Natural Frequency

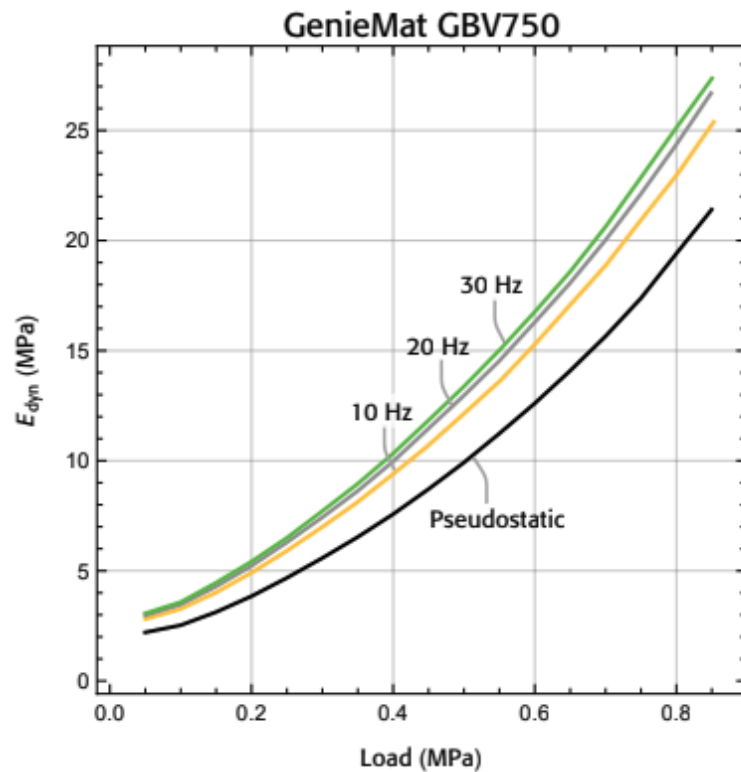


Fig. 3: Applied Load vs Dynamic Modulus

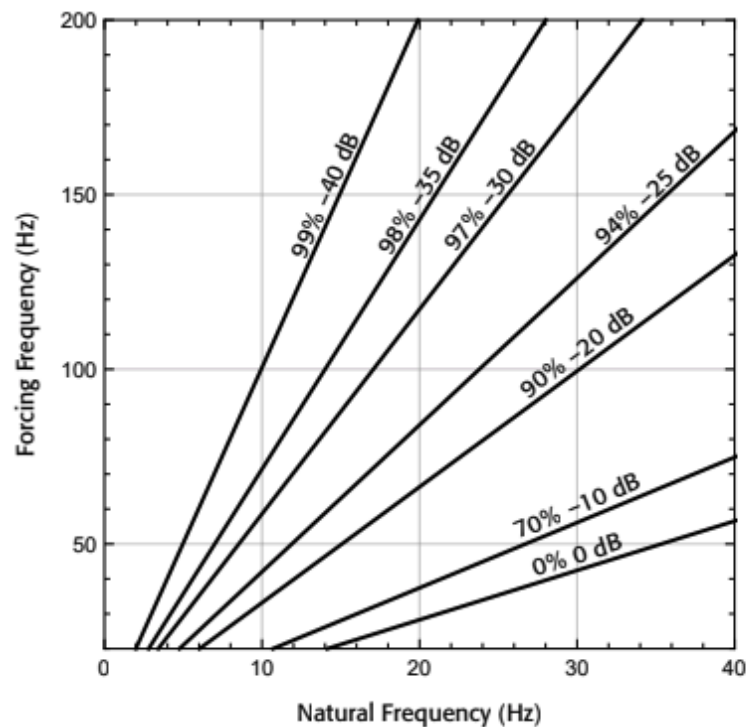


Fig. 4: Isolation Efficiency

AROUND THE WORLD.

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