

GenieMat[®] GBV150

GROUND-BORNE VIBRATION ISOLATION



PRODUCT SPECIFICATIONS

PRODUCT NAME:	GenieMat GBV150
DESCRIPTION:	Dynamically soft rebonded-rubber material capable of withstanding high loads. Used when superior vertical vibration decoupling is required for building isolation.
APPLICATION:	Optimized for loads up to 21.8 psi (150 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:	Panel: 24" x 48" (nom. 610 mm x nom. 1220 mm)
THICKNESS:	2" (nom. 50 mm)
WEIGHT:	43.4 lb/Panel (19.7 kg/Panel)
AREA:	8 ft ² (0.74 m ²)
QUANTITY/PALLET:	40

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TECHNICAL DATA

OPERATING LOAD RANGE:	10.875 - 21.8 psi (75 - 150 kPa)
PEAK LOAD LIMIT:	65 psi (450 kPa)
CREEP RATE (1000 HOURS @ MAX ALLOWABLE DESIGN LOAD):	< 1% per decade
MECHANICAL LOSS FACTOR (DIN 53513):	0.13*
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:	2.135 ft²·h·°F/BTU (0.376 m²·K/W)
NATURAL FREQUENCY:	Shall not be greater than 11.5 Hz @ 2088.5 psf (0.1 MPa) loading
40 Hz DYNAMIC MODULUS:	Shall be 464 psi (3.2 MPa) @ 2088.5 psf (0.1 MPa) loading

*Load and frequency dependent

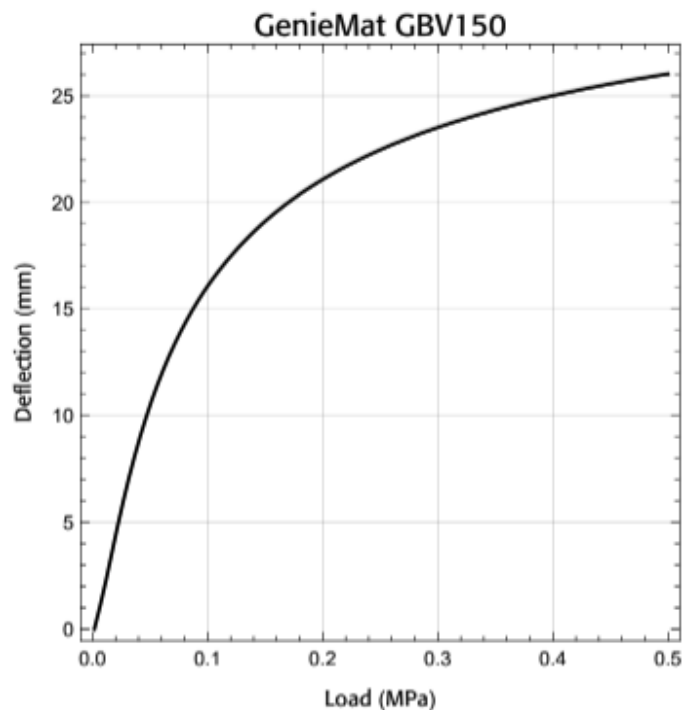


Fig. 1: Applied Load vs Deflection

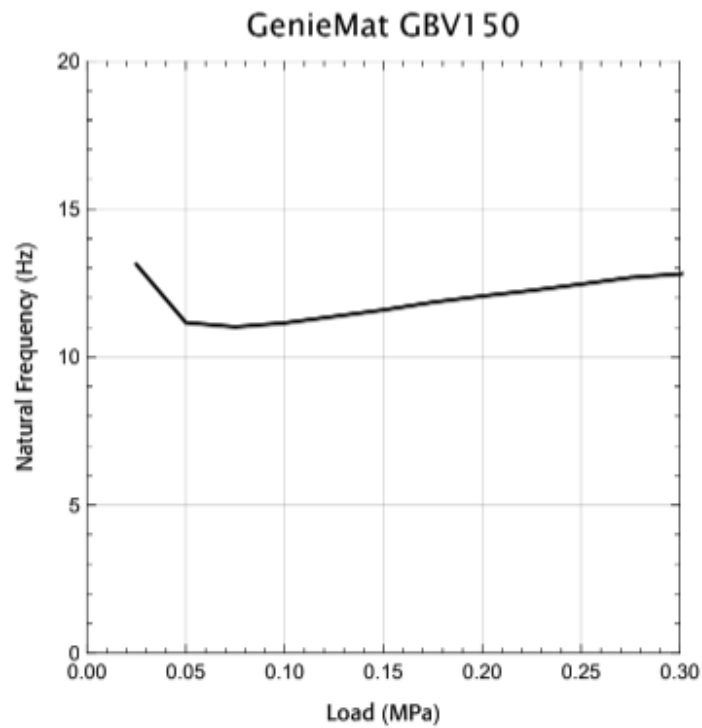


Fig. 2: Applied Load vs Natural Frequency

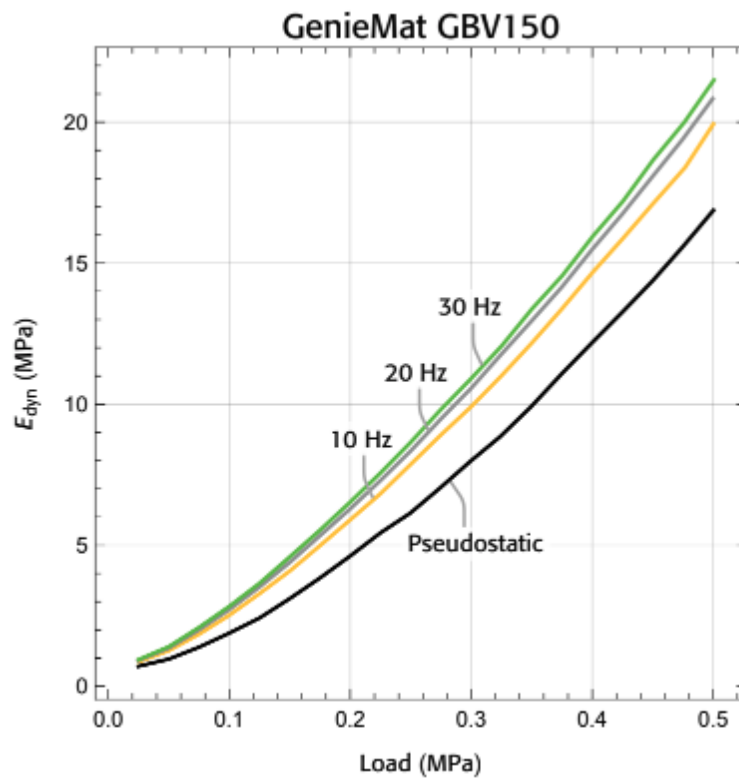


Fig. 3: Applied Load vs Dynamic Modulus

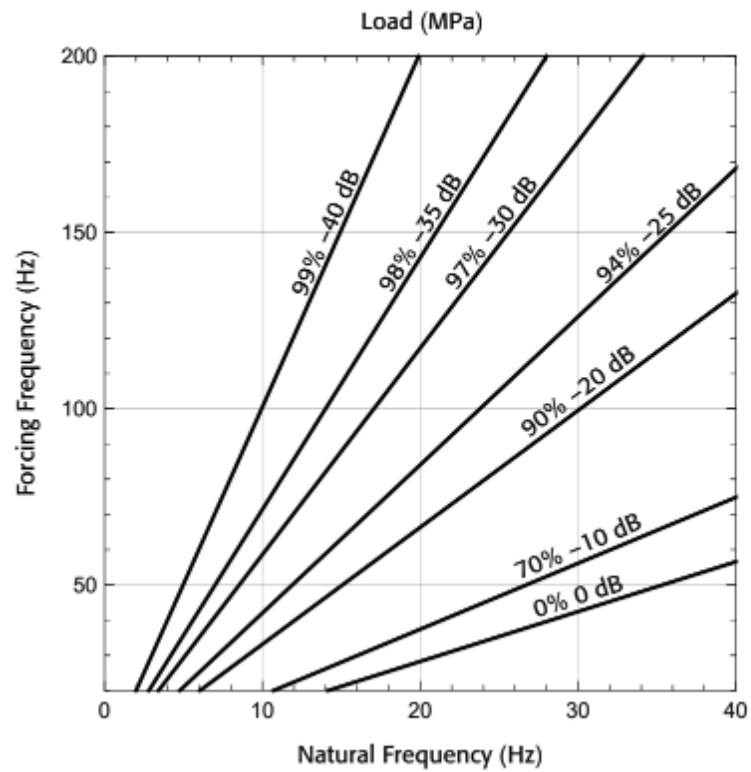


Fig. 4: Isolation Efficiency

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