



Phonisol BM0080 (1.5 lb) Sound Barrier Material

Description

Phonisol BM0080 is a heavy, flexible mineral loaded polyvinylchloride sound barrier.

Application

Phonisol BM0080 is designed to improve the sound insulation of existing metal service ducts and pipes at all frequencies. Other applications are in panels, partition walls and floors and carriage construction.

Composition

Phonisol BM0080 is composed of polymers filled with naturally occurring minerals, mainly barium sulphate and calcium carbonate.

In the overall product the approximate proportions by weight are as follows:

Plasticised PVC appr. 20%
Mineral Fillers appr. 75%
Pigments/others appr. 5%.

Phonisol BM0080 contains no lead, unrefined oils or bitumen. All mineral fillers are naturally occurring ground powders which are chemically unaltered from the state at which they were originally mined.

Physical properties

Colour	Anthracite
Roll size (also available in sheets)	1250 mm(w) x 50 m, other dimensions available upon request
Nominal thickness	3,5 mm
Surface	Smooth
Weight	8,0 kg/m ²
Density	2300 kg/m ³
Tear strength	13,4 Kg/cm
Chemical resistance	Resistant to oil, grease, diluted acids, alkalies
Flammability	Self extinguishing according to ASTM D 1692-68, FMVSS-302 SE
Operating temperature	-30°C to +65°C

Note: Phonisol BM0080 is made to a weight tolerance, not to a thickness tolerance.

Acoustic performance

Frequency (Hz)	125	250	500	1000	2000	4000	8000
dB	18	21	25	31	37	41	44

IMPORTANT: Insu-W-Rapid BV warrants that each of its products will be manufactured in accordance with the specifications in effect on the date of manufacture.

We make no other warranties and expressly disclaim any warranties of merchantability or fitness for a particular purpose. If a product fails to meet this limited warranty, purchaser's sole and exclusive remedy is replacement of the product or, at our option, refund of the purchase price. No guarantees for completeness, accuracy or results is expressed nor implied. The suitability of the product to an intended use is the sole responsibility of the user. Since material choice and application method are beyond our control, we accept no liability for direct or consequential damages.



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Additional Testing and Technical Data:

Hardness	90 Shore A (typical measured -85 - 95)
Tensile Strength	2.6 MPa (typical min 1.3MPa)
Elongation	100% (typical min 60%)
Oil Resistance (2 hrs @ 80°C)	Resistance in Diesel - shrinkage <3% Resistant in Mineral oil - shrinkage <3%
Flammability	FMVSS 302 Self-extinguishing ISO 3795 B<1.7mms ⁻¹
Operating Temperature Range (static)	-20°C to +90°C
Mean Sound Reduction Index	(approx) 26dB
Storage Requirements	Inside Storage away from rain and direct sunlight
Shelf Life	Not applicable if stored properly