



Advanced Acoustics Silent Floor Ultra Acoustic Underlay

Data Sheet

Material Description

Advanced Acoustics Silent Floor PLUS is a flexible 2 ply polyolefin sound barrier mat bonded to an 8mm, 25kg/m³ closed cell cross linked PE foam. This unique PVC free material has a proprietary polymer structure composed of a blend of polymers compounded with mineral fillers. It can be made use of as the sole sound absorption layer or as part of a multilayer composite with other materials. This material is effective in reducing both impact noise and airborne noise for floors and is designed to be placed under carpet to replace regular carpet underlay.

Key Benefits

- Environmentally Sustainable: Manufactured from pre and post industrial waste sources.
- Sustainable: 100% recyclable at the end of its life.
- Safer Disposal: poses fewer environmental risks and has a higher potential for mechanical recycling.
- Free from PVC, Plasticizers and Stabilizers and unrefined aromatic oils.
- Clean and Non-staining.
- Low tack easy to cut.
- Free from Lead.
- Free from Bitumen.

Typical Properties

Bottom Layer Specification

Nominal Weight	5kg/m ²
Nominal Thickness	2.88mm
Hardness	min 75 (Durometer Shore A, 1 sec dwell)



Tensile Strength	0.9mpA (JISK6251)
Elongation at break	>100% (JISK6251)
Dimensional Stability	<2% (4hr @ 100 °C)
Surface Tension	>44 dynes/cm
Flammability	<100 mm/min (FMVSS 302)

Top Layer Specification

Density	25kg/m ³
Tensile Strength - MD	291kPA
Tensile Strength – TD	237kPA
Elongation – MD	100%
Elongation – TD	115%
Compression 10%	20kPA
Compression 25%	39kPA
Compression 50%	98kPA
Compression Set – 0.5hrs	14%
Compression Set – 24hrs	5.5%
Working Temperature Range	-60-+80°C
Water Absorption %Vol (max)	1%
Water Vapour Transmission	0.97g/m ² *24h



Thermal Conductivity at 10C	0.0390W/mK
Thermal Conductivity at 40C	0.0460W/mK
Flammability	94mm/min (FMVSS302)

Overall Specification

Nominal Dimensions	600mm x 1200mm
Nominal Thickness	11mm
Overall Weight	3.75kg

Acoustic Properties

