

41414141414141414

allan

The world's lightest, thinnest, sound absorbing media.



Applications



Construction | Furniture | Automotive | Electronics | Curved surfaces | Buildings | Electrical housings | Flooring | Curtains

PLATFORM | SONOLAYR[™]



Hz

Performance

- Enhances the performance of acoustic media
- Optimized for high frequency noise absorption
- Negligible weight and mass

PLATFORM | SONOLAYR[™]

How does it work?

- 100nm in diameter
- 1/500th the size of human hair
- Very high surface area to volume ratio
- High porosity and flexibility



- Sound absorption increases with an increase in the specific surface area of a sound absorbing material.
- Nano-sized fibres and extreme porosity increases the specific surface area and sound scattering, increasing friction with air molecules whilst not bringing a thickness or weight penalty.
- Air molecules in the porous nanofibre material vibrate and rub against the nanofibres, leading to the conversion of sound energy to heat energy which is then dissipated.
- When sound waves penetrate into the nanofibre material, the air in the pores is periodically compressed and released, resulting in energy transformation and sound energy consumption.

Product specifications (flame retardant)

| Substrate Layer | PET | 30g/m2 weight* |
|-------------------|--|-----------------------------------|
| Protective Layers | PET | 30g/m2 weight* |
| Post processing | Ultrasonica | ally welded using diamond pattern |
| Product form | Rolled goods on 3-inch cardboard cores | |
| Roll width | 1.6m | |
| Roll length | ~200m | |
| Roll packaging | Individually | y shrink-wrapped |
| | | |

Certifications

- Fire retardant: NFPA 701-2019
- ISO 9001



*Average values

NANOLAX The global leader in nanofibre technology



NanoLayr manufactures quality functional nanofibre textiles on a huge scale. Having perfected our nanofibre manufacturing solution, NanoLayr can supply any size business and put our product into existing production lines.

- Founded in New Zealand in 2009.
- Our facilities are purpose built, state of the art and large at 5,500 square meters.
- Globally distributed team of subject matter experts and deep tech capability.
- ISO9001 certified.

Locations

| ×, | |
|----|---|
| | / |

Auckland, New Zealand

Global Headquarters Manufacturing Plant R&D Lab



Life Sciences Hub



Industrial Hub Innovation Center



E/ sales@nanolayr.com nanolayr.com/product/sonolayr

Disclaimer: The information contained in this brochure is based on present knowledge and current national legislation. The information provided is guidance on usage, application, health and safety etc, it is not to be construed as a guarantee of technical performance or suitability for particular applications.

V2072023