WES MIR

NONWOVEN MATERIALS FACTORY

"WES MIR" — RUSSIAN MANUFACTURER
HIGH TECHNOLOGY NON-WOVEN MATERIALS

KeepTek®
Innovative acoustic insulation

WES MIR
NONWOVEN MATERIALS FACTORY

KEEPTEK®
ACOUSTIC INSULATION

Wes Mir Nonwoven Fabric Factory has been developing and manufacturing soundproofing materials based on cutting-edge technologies for the auto industry for over 20 years. Wes Mir is a first- and second- tier supplier for leading auto manufacturers:

Wes Mir is a participant of the Samara automotive industry cluster. The company has its own laboratory, equipment for conducting research on acoustic properties of materials (impedance tube), and highly qualified engineers with vast knowledge and experience.

The portfolio of **KeepTek**® soundproofing products provides customers with the right solution to their tasks. **KeepTek**® materials are manufactured with various characteristics and different thickness and density to achieve the customer's desired soundproofing level.

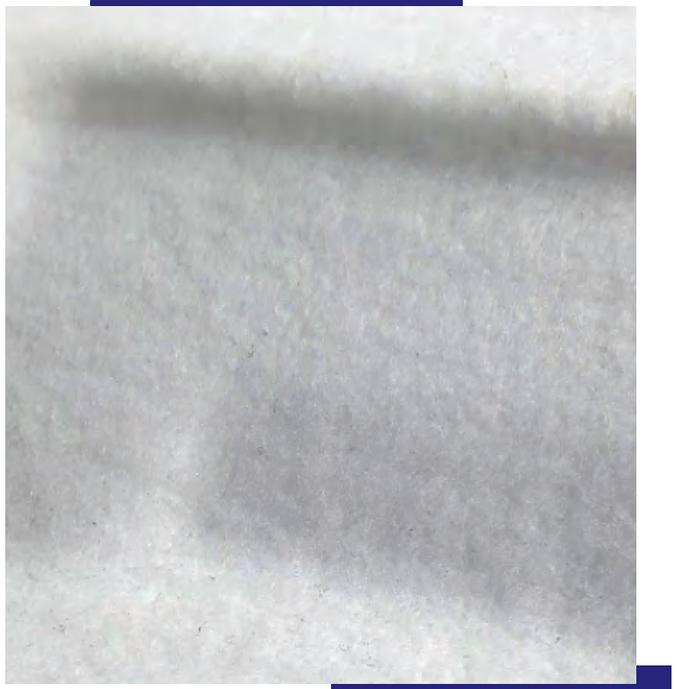
When used as a soundproofing layer in car interiors, **KeepTek**® soundproofing material significantly lowers the noise level, providing a quieter and more comfortable driving.

Sound is transmitted through the air as acoustic waves. The acoustic waves have different vibration frequencies.

When acoustic waves encounter the microfibres of **KeepTek**® soundproofing material, the resulting friction converts their acoustic energy into heat. The heat is irreversibly dissipated, thereby reducing the sound level. That is how **KeepTek**® acoustic material absorbs sound.

KEEPTEK®
ACOUSTIC INSULATION

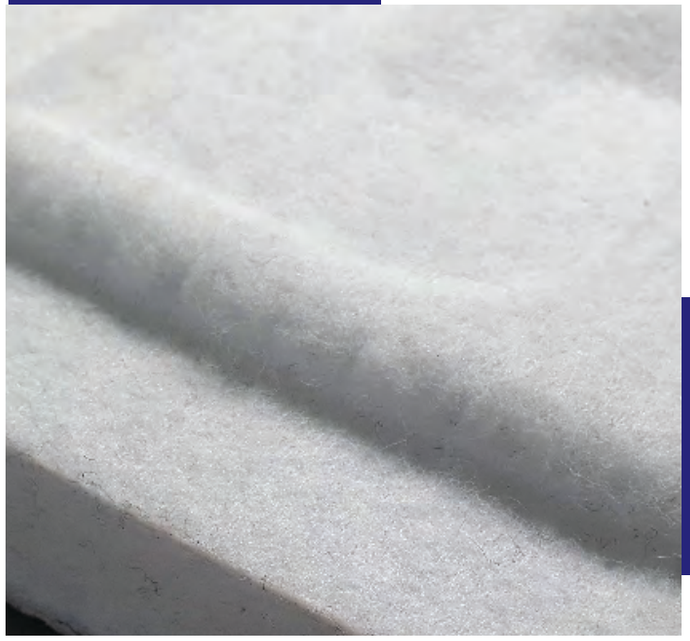
KeepTek® soundproofing material
Product properties



- Consists of a heat-bonded fabric based on light-weight polyester microfibres.
- The material has excellent elasticity and recovery under compression, making it perfect soundproofing material and cavity filler in cars to reduce noise.
- The material is moisture- and fungus-proof, i. e. it is hydrophobic and bacteriostatic.

  Therefore, using **KeepTek**® soundproofing material does not require an additional waterproofing layer or protective soaking. **KeepTek**® material is mould-resistant, which lowers the risk of unpleasant smells. This was confirmed numerous times in independent tests at the Imat-Uve laboratory (Germany), Odor test, and the FITI laboratory (Korea), Mildew test.

KeepTek® soundproofing material Technological advantages



- **KeepTek®** soundproofing material was developed, taking into account the need for excellent compression resistance when the material is used in various cavities in vehicles during assembly. **KeepTek®** is perfect for applications where filling the interior space of door panels and body trim of various size and thickness is critically important.
- **KeepTek®** soundproofing material is easy to attach to various vehicle parts using ultrasonic bonding, hot-melt adhesive, or mechanical fastening.
- The material has excellent processing properties for moulding and manufacturing parts by 3D printing.
- It is also an effective heat-insulating material.
- It is not flammable.

KEEPTEK®
ACOUSTIC INSULATION

KeepTek® soundproofing material
Product advantages

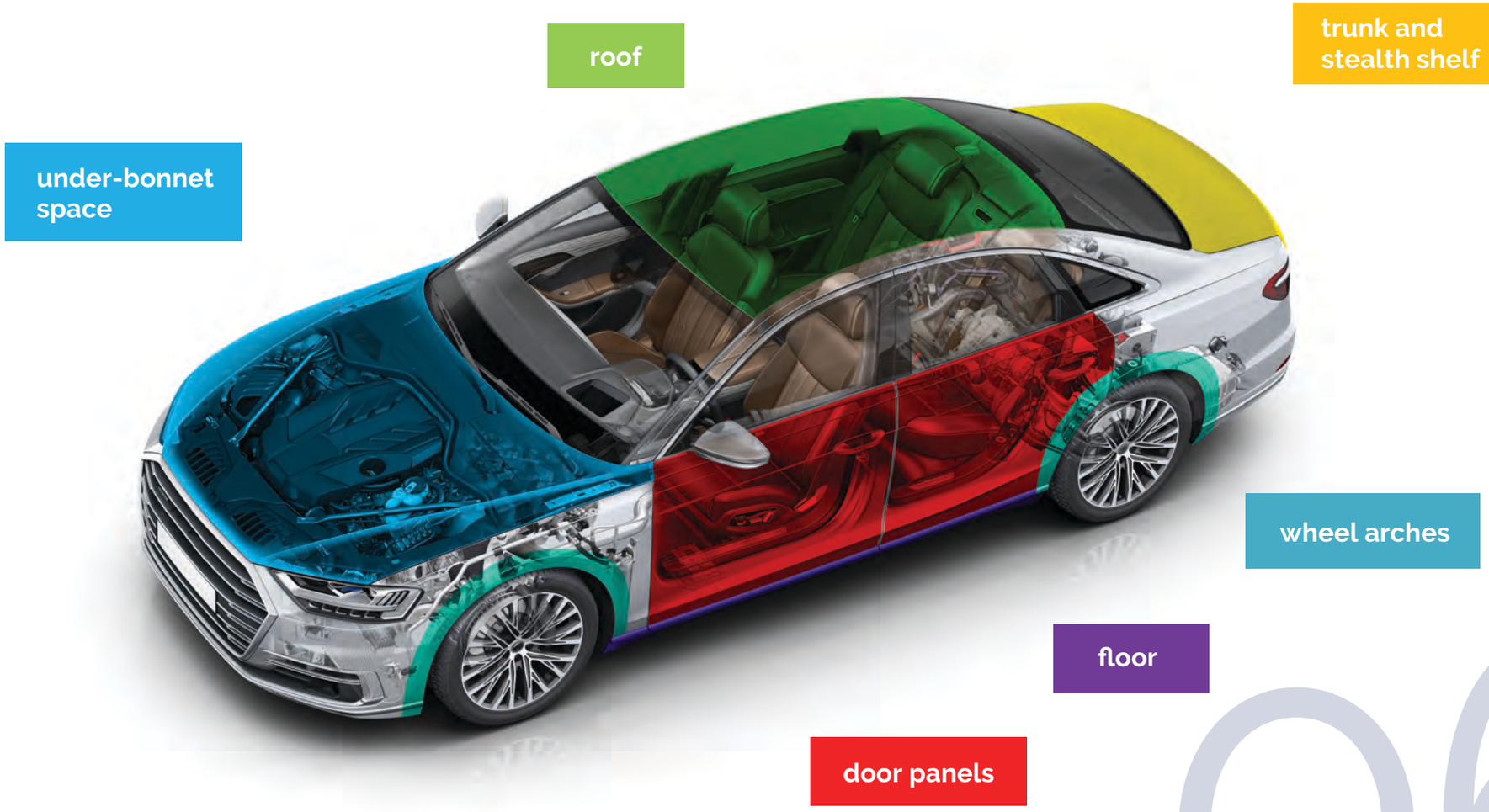
- **KeepTek**® soundproofing material has excellent thermophysical and operating properties.

  *The use of 100 % polyester fibres widens the operating temperature range of a vehicle with **KeepTek**® soundproofing material from -60 °C to +170 °C, ensuring its efficiency even at high temperature and vibration loads.*

  For comparison: when using soundproofing material based on polypropylene fibres at temperatures below -20 °C, the material becomes brittle and may crumble.
  At temperatures higher than 90 °C, the material may melt, which could lead to loss of the claimed acoustic properties of the material during its use or under high vibration loads.

- **KeepTek**® soundproofing material is safe for humans and the environment as proven by tests for reaction with heavy metals and organic emissions at independent laboratories at the Polmatex Research Centre and AVTOVAZ, and Imat-Uve (Germany).

KeepTek® soundproofing material
Application



KeepTek® Top Acoustic

trunk and stealth shelf
roof
door panels
under-bonnet space
floor
wheel arches

PRODUCT PROPERTIES

Therefore, using **KeepTek®** soundproofing material does not require an additional waterproofing layer or protective soaking. **KeepTek®** material is mouldresistant, which lowers the risk of unpleasant smells.

KeepTek® Top Acoustic	TA 16.150	TA 21.185	TA 21.350	TA 27.230	TA 35.300	TA 41.380
Thickness	16	21	21	27	35	41
Density	150-180	185-220	350-450	230-280	300-360	380-450

KeepTek® High Temperature

trunk and stealth shelf
roof
door panels
under-bonnet space
floor
wheel arches

KeepTek® High Temperature	HT 20.450	HT 25.500	HT 30.600
Thickness	20	25	30
Density	450-540	500-550	600-650

KeepTek® Universal

trunk and stealth shelf
roof
door panels
under-bonnet space
floor
wheel arches

KeepTek® Universal	UN 8.150	UN 10.180	UN 13.220	UN 18.280	UN 21.330	UN 23.400	UN 26.480
Thickness	8	10	13	18	21	23	26
Density	150-180	180-220	220-260	280-330	330-390	400-480	480-550

KeepTek® Flexible

trunk and stealth shelf
roof
door panels
under-bonnet space
floor
wheel arches

KeepTek® Flexible	FL 16.150	FL 21.185	FL 27.230
Thickness	16	21	27
Density	150-180	185-220	230-280

KeepTek® HEAVY DUTY

trunk and stealth shelf
roof
door panels
under-bonnet space
floor
wheel arches

PRODUCT PROPERTIES

Consists of a heat-bonded fabric based on light-weight polyester microfibres.

The material is moisture- and fungus-proof, i. e., it is hydrophobic and bacteriostatic.

KeepTek® Heavy duty	HD 10.220	HD 12.260	HD 15.320	HD 19.380	HD 26.440	HD 35.520	HD 44.600
Thickness	10	12	15	19	26	35	44
Density	220-260	260-320	320-380	380-440	440-520	520-600	600-720

KeepTek®

- trunk and stealth shelf
- roof
- door panels
- under-bonnet space
- floor
- wheel arches

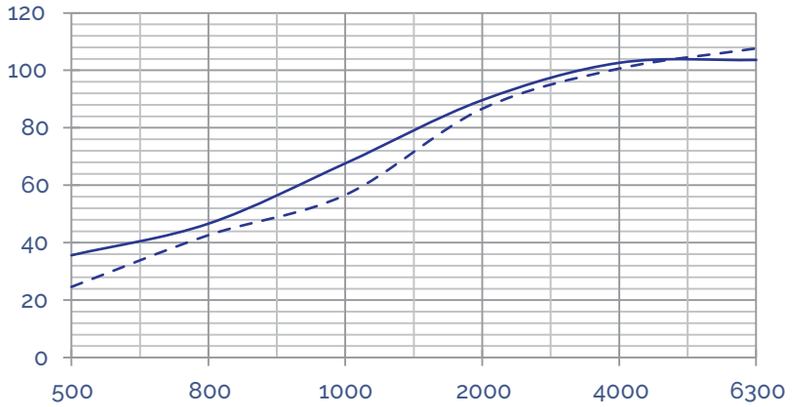
OUR ADDITIONAL OFFERS FOR CUSTOMERS:

- manufacturing of parts according to the customer's drawings;
- duplication from one or two sides with black or white interfacing, or polypropylene spunbond fabric;
- application of self-adhesive layer (solid or consisting of two parts for easier installation);
- ultrasonic treatment of parts

KEEPTEK® ACOUSTIC INSULATION

Comparative tests. Results

ACOUSTIC ABSORPTION IN ALPHA CABIN TEST
ACCORDING TO UNE-EN ISO 354:2004

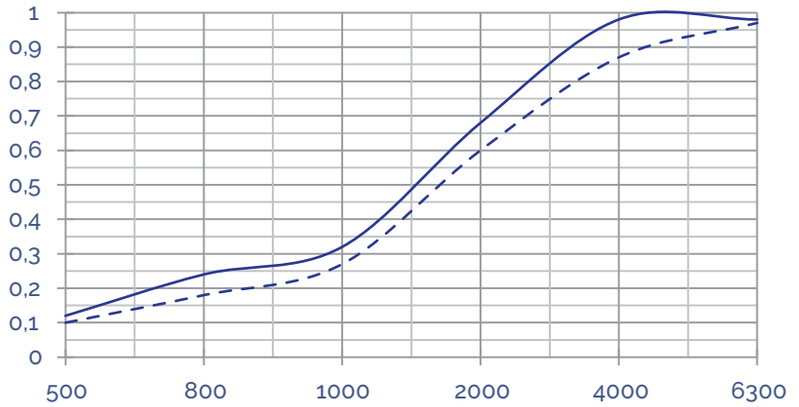


Other European non-woven material

KeepTek®

Testing Laboratory: FUNDACIÓN CIDAUT Acoustics and Vibration Laborator, Spain, 2019.

ACOUSTIC ABSORPTION IN ALPHA CABIN TEST
ACCORDING TO UNE-EN ISO 354:2004



Other European non-woven material

KeepTek®

Testing Laboratory: Technical University of Liberec, Czech Republic, 2020.

KEEPTEK®
ACOUSTIC INSULATION

KeepTek® materials have certificates, reports and expert findings confirming their high quality and technical specifications.

WES MIR

NONWOVEN MATERIALS FACTORY

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