

Adhesive Tape Systems

# NVH Adhesives

Solutions for Noise  
Vibration and Harshness



Adhesive Tape Systems

Engineered to Perform Better™





# Solutions for Noise Vibrations and Harshness

## Silent car interiors with ORAFOL's NVH Adhesives

ORAFOL's Noise Vibration and Harshness (NVH) assortment was specifically developed for all automotive applications that are related to noise reduction. The product range covers bonding of heavy EPDM substrates, synthetic and needled felts as well as foams and many other products. Especially suitable for the adhesion of i.a. rough, open surfaces, EPDM, soft PVC, technical felts and foams.

### Solutions for Noise Reduction Offer

- Best bonding results on a wide range of substrates
- High temperature, aging and plasticizer resistance
- Perfect bonding on curved surfaces
- Light bonding alternatives to optimize and reduce vehicle weight

## Areas of use – Substrates

It was designed to meet the manifold requirements related to NVH. It covers the whole range from bonding of very soft light-weight sound absorbers up to heavy EPDM-anti vibration solutions. The materials were developed to deal with softener migration, VOC emission, fire retardancy, high temperature resistance or extreme tacky adhesives that bond heavily to non-polar surfaces.

### Absorb



Bonding highly sound absorptive materials to prevent noise propagation

#### Light Weight Mounting

Mounting of loose, soft and low density materials

- Synthetic & needled felts, flock fibers, velours, fleeces

### Reduce



Bonding sound de-coupling structures preventing vibrations to generate or transmit uncomfortable noises

#### Permanent Mounting of LSE-Materials

High shear & high temperature resistance, bonding on curved surfaces with excellent durability

Structural bonding of multimerial components

- Foams (PU, PE, LSE, Visco-Elastic Memory foam)

### Block



Bonding sound isolating or damping materials to block exterior noise migration into the cabin

#### Mounting of heavy / softener containing Materials Anti-Vibration Systems Seals

- Heavy EPDMs, PVC, PP, LDPE, TPE, NBR, SBR, CR
- PU-Foams

# Providing solutions for effective noise and vibration control

## Absorb

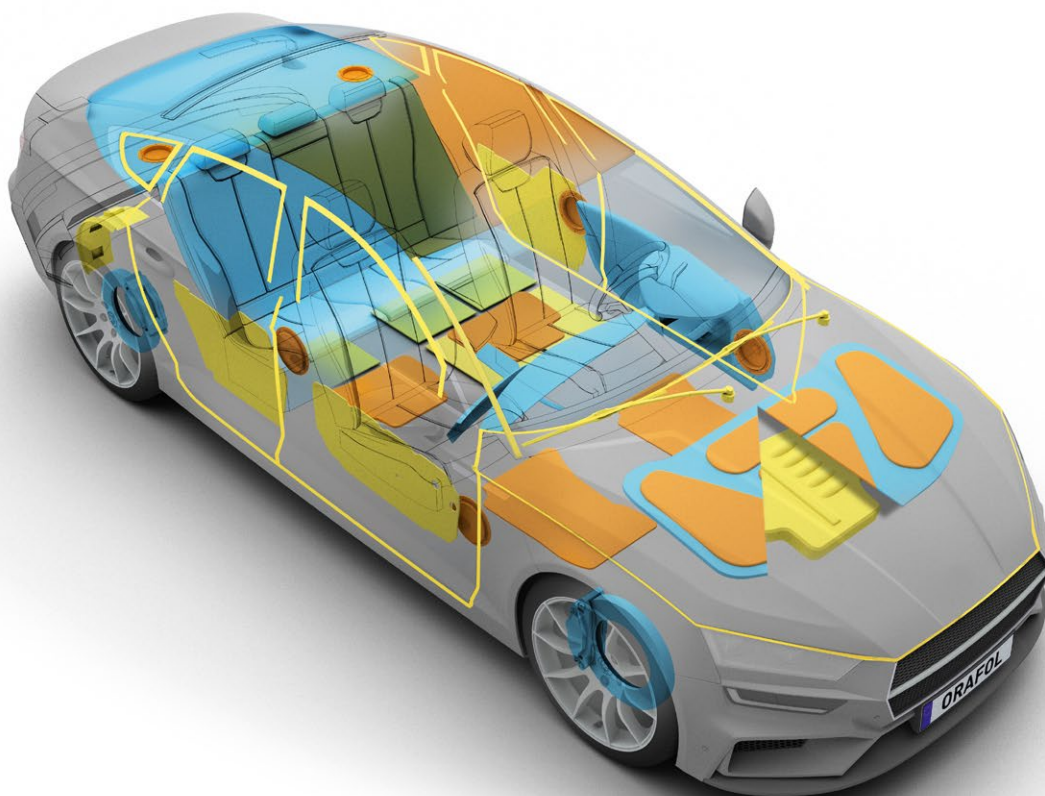
- Headliner absorption foams and felts
- Hood noise absorption mats
- Fiber-based acoustic absorption pads
- Loud speaker damping
- Carpet fixation
- Honeycomb sound absorbers
- Seatbelt buckle protective felts

## Reduce

- Engine noise reducing insulators
- Brake shims
- Fixation of plastic molds
- Interior trim
- Dashmat covers
- Composite panels
- Seat structure optimization

## Block

- Wheel housing insulation
- Floor absorbers
- Air duct interior
- Door water shield
- Tunnel absorbers
- Wiper Modul absorber
- Enginge cover
- Sealing systems
- Pillar insulators



At ORAFOL we continuously work to further develop and customize our solutions to satisfy our customers requirements.



# Product Range

	Application	Product	Thickness [µm]	Carrier	Attributes	UV/aging resistance	Temperature resistance	Peel Performance on LSE
Noise Absorption	Low dense felts and fabrics	ORABOND® 1348LF	100	Tissue / fabric	Low emission; Fogging (PV3015)<2mg; VOC (PV3341) <150µgC/g; Formaldehyd (PV3925)<0,5mg/Kg; Odour (PV3900,B1) = <3,0 grade	+++	++	++
		ORABOND® 1358LF	160					
		ORABOND® 1358 GLF	230					
Noise Reduction	PE-Foams	ORABOND® 13163	130	Tissue	Excellent shear, permanent bonding; Fogging (PV3015) <3mg; VOC (PV3341) <100µgC/g; Formaldehyd (PV3925)<0,5mg/Kg; Odour (PV3900,B1)= <3,0 grade	++	+++	++
		ORABOND® 13164*	160					
		ORABOND® 13165	190					
	LSE	ORABOND® 1395	130	PET	Excellent shear, permanent bonding	++	+++	++
	ORABOND® 1391	160						
	ORABOND® 1397	210						
	Plastic molds	ORABOND® 1864	500	PE-Foam	Excellent shear, permanent bonding, plane & stiff substrates	++	++	++
		ORABOND® 1812	1100					
		ORABOND® 1819	2100					
Noise Blocking	Heavy EPDM, LSE substrates	ORABOND® 1359*	160	Tissue/fabric	Good plasticiser resistance *Fire retardand (DBL5307.10 and VW TL 1010)	++	++	++
		ORABOND® 1350GI	230					
	EPDM- & PU-foams, LSE substrates	ORABOND® 1324	30	Transfer	good shear, permanent bonding, low dense LSE substrates	++	++	+++
		ORABOND® 1325	60					
		ORABOND® 1327	90					
	ORABOND® 1328	120						
	EPDM- & PU-foams, LSE substrates	ORABOND® 1338	130	PET scrim	good shear, permanent bonding, low dense LSE substrates with high softener contents	++	++	++

+ good, ++ very good, +++ excellent

The shown products are available with different release liners, such as siliconized paper (yellow/white), various PE-coated papers and films (e.g. PP, PE). Please contact us for more information.



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Find out more about our products at:  
[www.orafol.com](http://www.orafol.com) · [www.orafoleurope.com](http://www.orafoleurope.com)

