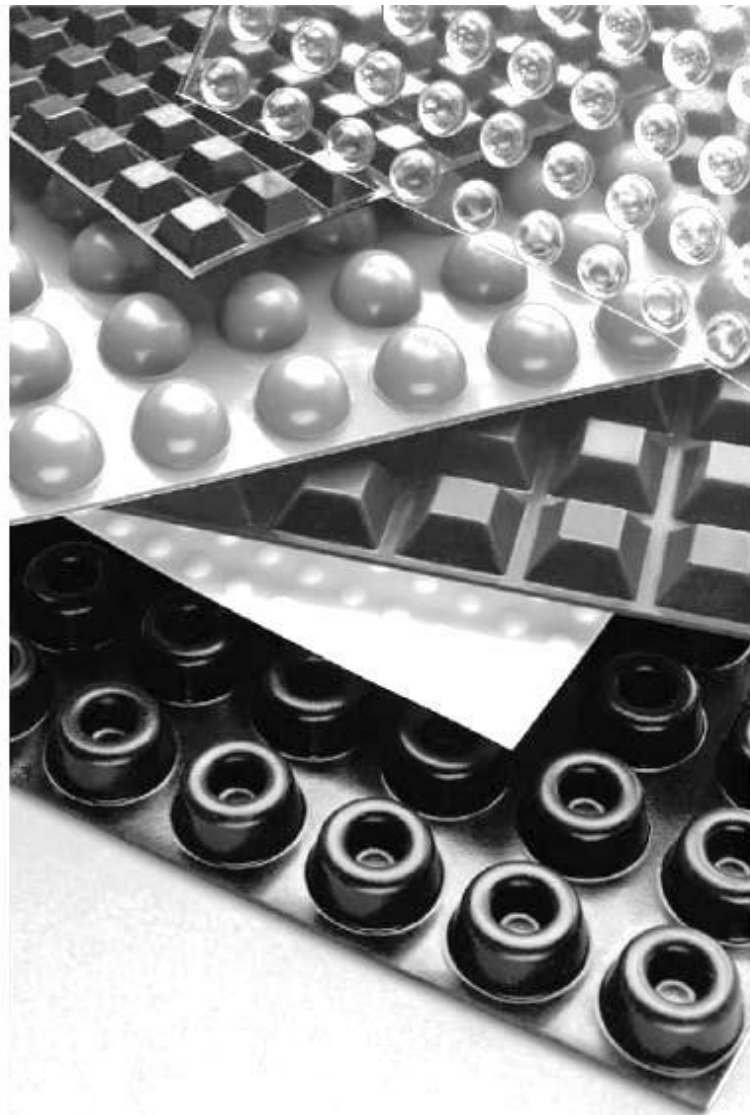




## Self adhesive rubber buffers „Bumper“





## Self adhesive rubber buffers „Bumper“

- einfache Handhabung
- exzellente Verschleißfestigkeit
- elastisch, bruchfest, unverwüchtlich
- kein Abfärben
- keine Beschädigung von Oberflächen
- vibrations- und stoßdämpfend
- ausgezeichnete Reibungs- und Rutschfestigkeit
- enthalten keine Weichmacher, Öle oder Füllstoffe
- RoHS-konform
- UL-geprüft



### Adhesive rubber buffers - "Bumpers"

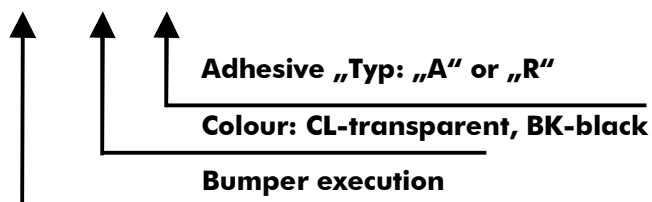
Pages M-26 – M-32

Adhesive rubber buffers - **Cylindrical**  
 Adhesive rubber buffers - **Half round**  
 Adhesive rubber buffers - **Square**  
 Adhesive rubber buffers - **Cylindrical countersunk**  
 Adhesive rubber buffers - **Silencing**  
 Adhesive rubber buffers - **Conical**  
 Adhesive rubber buffers - **Technical information**

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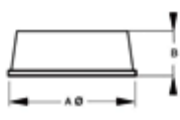



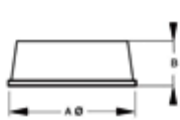

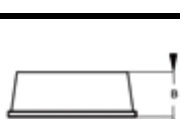

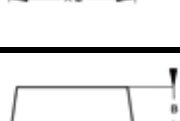

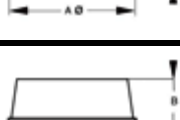

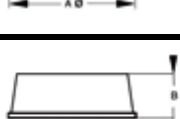

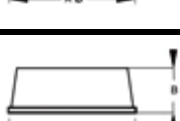

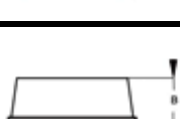

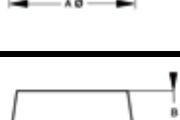
### Ordering example:

Art.No. HS-33 . GL-R



## Adhesive Rubber buffers „Bumper“


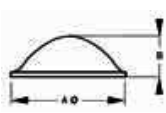

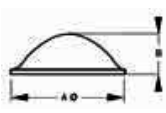

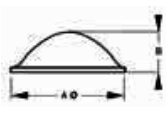

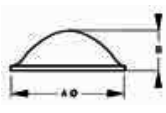

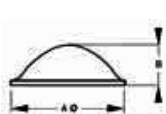

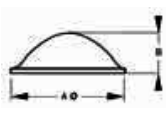

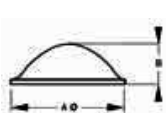

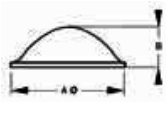

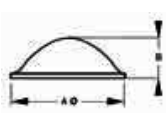

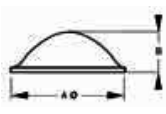
### Adhesive rubber buffers „Bumpers“

Cylindrical	Article no.	Colour	Colour		VPE Piece	Carton Piece	MOQ Piece	
			A Ø	B				
		P-HS-34-CL-R	None	9.5	3.2	300	6,000	300
		P-HS-34-BK-R	Black	9.5	3.2	300	6,000	6,000
		P-HS-34-GR-R	Gray	9.5	3.2	300	6,000	6,000
		P-HS-34-WH-R	White	9.5	3.2	300	6,000	6,000
		P-HS-35-CL-R	None	9.5	4.8	200	5,000	200
		P-HS-35-BK-R	Black	9.5	4.8	200	5,000	5,000
		P-HS-05-CL-R	None	12.7	1.5	200	5,000	200
		P-HS-05-BK-R	Black	12.7	1.5	200	5,000	200
		P-HS-05-GR-R	Gray	12.7	1.5	200	5,000	5,000
		P-HS-05-WH-R	White	12.7	1.5	200	5,000	5,000
		P-HS-05-BR-R	Braun	12.7	1.5	200	5,000	5,000
		P-HS-01-CL-R	None	12.7	3.5	200	5,000	200
		P-HS-01-BK-R	Black	12.7	3.5	200	5,000	200
		P-HS-01-GR-R	Gray	12.7	3.5	200	5,000	5,000
		P-HS-01-WH-R	White	12.7	3.5	200	5,000	5,000
		P-HS-01-BR-R	Brown	12.7	3.5	200	5,000	5,000
		P-HS-06-CL-R	None	12.7	6.4	200	5,000	200
		P-HS-06-BK-R	Black	12.7	6.4	200	5,000	200
		P-HS-06-WH-R	White	12.7	6.4	200	5,000	5,000
		P-HS-11-CL-R	None	16.5	10.2	128	2,560	128
		P-HS-11-BK-R	Black	16.5	10.2	128	2,560	128
		P-HS-11-GR-R	Gray	16.5	10.2	128	2,560	2,560
		P-HS-44-CL-R	None	19.1	4.1	98	2,450	98
		P-HS-44-BK-R	Black	19.1	4.1	98	2,450	98
		P-HS-44-WH-R	White	19.1	4.1	98	2,450	2,450
		P-HS-41-CL-R	None	19.8	5.1	84	3,360	84
		P-HS-41-BK-R	Black	19.8	5.1	84	3,360	84
		P-HS-41-GR-R	Gray	19.8	5.1	84	3,360	3,360
		P-HS-24-CL-R	None	20.6	3.0	72	2,520	72
		P-HS-24-BK-R	Black	20.6	3.0	72	2,520	2,520
		P-HS-24-GR-R	Gray	20.6	3.0	72	2,520	2,520
		P-HS-24-WH-R	White	20.6	3.0	72	2,520	2,520
		P-HS-24-BR-R	Brown	20.6	3.0	72	2,520	2,520
		P-HS-72-CL-R	None	31.24	2.54	32	2,400	32
		P-HS-72-BK-R	Black	31.24	2.54	32	2,400	2,400

All colours in mm · MOQ = Minimum order quantity or a multiple thereof.

## Adhesive Rubber buffers „Bumper“


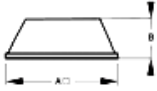

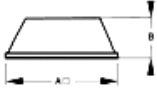
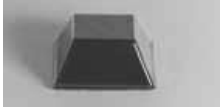
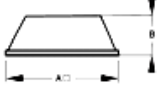

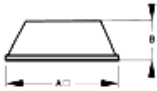

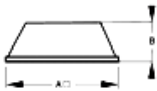
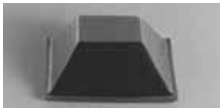
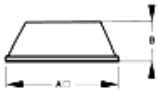


### Adhesive rubber buffers „Bumpers“

Half round		Article no.	Colour	Colour		VPE Piece	Carton Piece	MOQ Piece
				A Ø	B			
		P-HS-40-CL-R	None	6.4	1.6	272	11,424	272
		P-HS-40-BK-R	Black	6.4	1.6	272	11,424	272
		P-HS-40-WH-R	White	6.4	1.6	272	11,424	11,424
		P-HS-25-CL-R	None	6.4	2.1	450	5,400	450
		P-HS-25-BK-R	Black	6.4	2.1	450	5,400	5,400
		P-HS-27-CL-R	None	7.9	2.2	75	5,400	75
		P-HS-27-BK-R	Black	7.9	2.2	75	5,400	5,400
		P-HS-07-CL-R	None	8.5	2.2	144	5,040	144
		P-HS-07-BK-R	Black	8.5	2.2	144	5,040	5,040
		P-HS-07-WH-R	White	8.5	2.2	144	5,040	5,040
		P-HS-12-CL-R	None	9.5	3.8	72	7,200	72
		P-HS-12-BK-R	Black	9.5	3.8	72	7,200	7,200
		P-HS-12-GR-R	Gray	9.5	3.8	72	7,200	7,200
		P-HS-12-WH-R	White	9.5	3.8	72	7,200	7,200
		P-HS-12-BR-R	Brown	9.5	3.8	72	7,200	7,200
		P-HS-22-CL-R	None	9.5	5.4	300	6,000	300
		P-HS-22-BK-R	Black	9.5	5.4	300	6,000	6,000
		P-HS-02-CL-R	None	11.1	5.1	242	5,082	242
		P-HS-02-BK-R	Black	11.1	5.1	242	5,082	242
		P-HS-02-GR-R	Gray	11.1	5.1	242	5,082	5,082
		P-HS-02-WH-R	White	11.1	5.1	242	5,082	5,082
		P-HS-02-BR-R	Brown	11.1	5.1	242	5,082	5,082
		P-HS-15-CL-R	None	15.7	7.9	128	3,200	128
		P-HS-15-BK-R	Black	15.7	7.9	128	3,200	128
		P-HS-15-GR-R	Gray	15.7	7.9	128	3,200	3,200
		P-HS-15-WH-R	White	15.7	7.9	128	3,200	3,200
		P-HS-15-BR-R	Brown	15.7	7.9	128	3,200	3,200
		P-HS-08-CL-R	None	17.8	9.6	98	2,254	98
		P-HS-08-BK-R	Black	17.8	9.6	98	2,254	2,254
		P-HS-08-GR-R	Gray	17.8	9.6	98	2,254	2,254
		P-HS-08-WH-R	White	17.8	9.6	98	2,254	2,254
		P-HS-39-CL-R	None	19.1	1.9	84	5,040	84
		P-HS-39-BK-R	Black	19.1	1.9	84	5,040	5,040

All colours in mm · MOQ = Minimum order quantity or a multiple thereof.

## Adhesive Rubber buffers „Bumper“


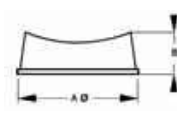

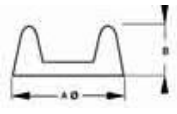


### Adhesive rubber buffers „Bumpers“

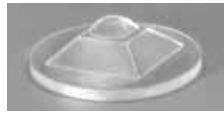
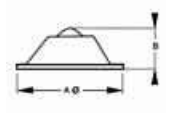

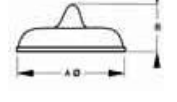
Square	Article no.	Colour	Colour		VPE Piece	Carton Piece	MOQ Piece	
			A□	B				
		P-HS-20-CL-R	None	10.2	2.5	242	5,082	242
		P-HS-20-BK-R	Black	10.2	2.5	242	5,082	5,082
		P-HS-20-GR-R	Gray	10.2	2.5	242	5,082	5,082
		P-HS-20-WH-R	White	10.2	2.5	242	5,082	5,082
		P-HS-20-BR-R	Brown	10.2	2.5	242	5,082	5,082
		P-HS-32-CL-R	None	12.7	3.0	200	5,000	200
		P-HS-32-BK-R	Black	12.7	3.0	200	5,000	200
		P-HS-32-GR-R	Gray	12.7	3.0	200	5,000	5,000
		P-HS-32-WH-R	White	12.7	3.0	200	5,000	5,000
		P-HS-32-BR-R	Brown	12.7	3.0	200	5,000	5,000
		P-HS-03-CL-R	None	12.7	5.8	200	5,000	200
		P-HS-03-BK-R	Black	12.7	5.8	200	5,000	5,000
		P-HS-03-GR-R	Gray	12.7	5.8	200	5,000	5,000
		P-HS-03-WH-R	White	12.7	5.8	200	5,000	5,000
		P-HS-03-BR-R	Brown	12.7	5.8	200	5,000	5,000
		P-HS-29-CL-A	None	19.8	6.4	98	2,940	98
		P-HS-29-BK-A	Black	19.8	6.4	98	2,940	2,940
		P-HS-29-BR-A	Brown	19.8	6.4	98	2,940	2,940
		P-HS-04-CL-R	None	19.8	9.7	1	2,000	100
		P-HS-04-BK-R	Black	19.8	9.7	1	2,000	2,000
		P-HS-04-GR-R	Gray	19.8	9.7	1	2,000	2,000
		P-HS-04-BR-R	Brown	19.8	9.7	1	2,000	2,000
		P-HS-19-CL-R	None	20.6	7.6	98	2,646	98
		P-HS-19-BK-R	Black	20.6	7.6	98	2,646	98
		P-HS-19-GR-R	Gray	20.6	7.6	98	2,646	2,646
		P-HS-19-BR-R	Brown	20.6	7.6	98	2,646	2,646
		P-HS-36-CL-R	None	25.4	4.6	55	2,310	2,310
		P-HS-36-BK-R	Black	25.4	4.6	55	2,310	2,310
		P-HS-36-GR-R	Gray	25.4	4.6	55	2,310	2,310







All colours in mm · MOQ = Minimum order quantity or a multiple thereof.

## Adhesive Rubber buffers „Bumper“

### Adhesive rubber buffers „Bumpers“

Cylindrical countersunk	Article no.	Colour	Colour		VPE Piece	Carton Piece	MOQ Piece	
			A Ø	B				
		P-HS-18-CL-R	None	12.7	3.5	200	5,000	200
		P-HS-18-BK-R	Black	12.7	3.5	200	5,000	5,000
		P-HS-18-GR-R	Gray	12.7	3.5	200	5,000	5,000
		P-HS-18-WH-R	White	12.7	3.5	200	5,000	5,000
		P-HS-17-CL-R	None	22.3	10.2	72	1,440	72
		P-HS-17-BK-R	Black	22.3	10.2	72	1,440	72
		P-HS-17-GR-R	Gray	22.3	10.2	72	1,440	1,440
		P-HS-17-WH-R	White	22.3	10.2	72	1,440	1,440
		P-HS-17-BR-R	Brown	22.3	10.2	72	1,440	1,440
		P-HS-30-CL-A	None	46.0	15.2	1	500	500
		P-HS-30-BK-A	Black	46.0	15.2	1	500	500
		P-HS-30-GR-A	Gray	46.0	15.2	1	500	500
		P-HS-30-WH-A	White	46.0	15.2	1	500	500
		P-HS-30-BR-A	Brown	46.0	15.2	1	500	500

Silencing	Article no.	Colour	Colour		VPE Piece	Carton Piece	MOQ Piece	
			A Ø	B				
		P-HS-33-SD-CL-R	None	12.7	3.8	200	5,000	200
		P-HS-58-SD-CL-R	None	12.7	5.1	200	5,000	200

Conical	Article no.	Colour	Colour		VPE Piece	Carton Piece	MOQ Piece	
			A Ø	B				
		P-HS-37-CL-A	None	18.3	14.2	1	1,500	1,500
		P-HS-37-BK-A	Black	18.3	14.2	1	1,500	1,500
		P-HS-47-CL-A	None	19.1	19.1	1	1,000	1,000
		P-HS-47-BK-A	Black	19.1	19.1	1	1,000	1,000
		P-HS-57-CL-A	None	20.0	22.5	1	1,000	1,000
		P-HS-57-BK-A	Black	20.0	22.5	1	1,000	1,000

All colours in mm · MOQ = Minimum order quantity or a multiple thereof.

# Adhesive Rubber buffers „Bumper“

## Technical information - Adhesive rubber buffers "Bumpers"

Material: polyurethane	Standard	SD-Completion
Hardness shore A	60° - 70°	50° - 55°
Tensile strength g/cm 2	44,802	52,730
Ultimate strain %	192	607
Breaking strength g/cm	38,216	22,680
Wearing resistance g/1000 cycles	0.016	0.010
Flammability:	UL-94 HBF	UL-94 HBF

Die SD-Completion is used specially for silencing.  
The completion is not designed for heavy loads.

**Tolerances:** + / - 0.5 mm

**Colours:** None, Black, White, Gray, and Brown (see table).  
The crystal-clear bumper is almost invisible in gleam or translucent applications.

### Adhesive:

**Type R:** Standard for all Bumpers, except  
P-HS-29, P-HS-30, P-HS-37, P-HS-47, P-HS-57

Dynamic synthetical rubber adhesive  
with high shearing force, solvent based

Temperature processing: +18° ... + 65° C

Durability: +18° ... + 82° C

**Type A:** deliverable on enquiry, for  
P-HS-29, P-HS-30, P-HS-37, P-HS-47,  
P-BS-57 standard.

Powerful acrylic-adhesive with high shearing force,  
fast liability, cold resistant,  
solvent based

Temperature processing: + 18° ... + 65° C

Durability: -40° ... + 149° C

**Storage:** by 23° C and 55% rel.  
air humidity

Delivery form: on punched cards

Amount of Bumpers, see table (VPE)

### Usage instructions:

To achieve the highest liability, the surface must be smooth, even, not porous, dry, clean and free from oil, fat, solvents and dirt. Through bending of the carrier plate, the bumpers can be taken off easily. At doing this do not touch the adhesive. Press the bumpers with sufficient pressure to achieve a complete connection. After 24 hours the maximal liability is achieved and the bumpers can suspend great forces or weights.

The bumpers do not contain any plasticizers, which could possibly damage the surface. The user should prove the suitability of the bumpers for the specifical utility, under the given conditions.

## Adhesive Rubber buffers „Bumper“

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