

PLAKA dBREAK – ISOMAT PKS

Acoustic polyurethane foam mats

REF 12.07.70 - Version V01 - 20/08/2020



Load area

Loading type	Values
Continuous static load	0.010 → 1.900 N/mm ²
Dynamic load	0.015 → 2.800 N/mm ²
Peak load (rare, short-term charges)	0.5 → 7.0 N/mm ²

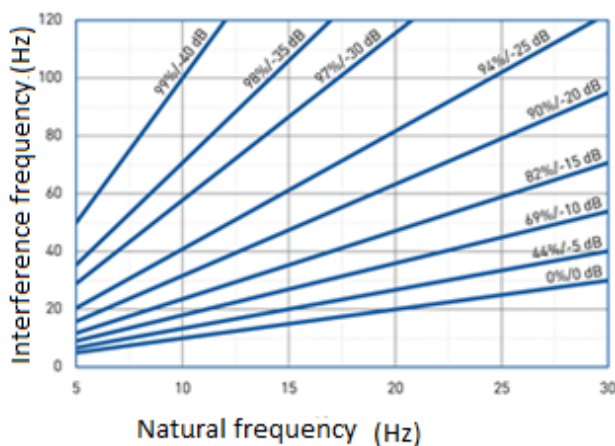
Depends on the shape factor, the values shown apply for a form factor q = 3

Property of elastic bearing pads

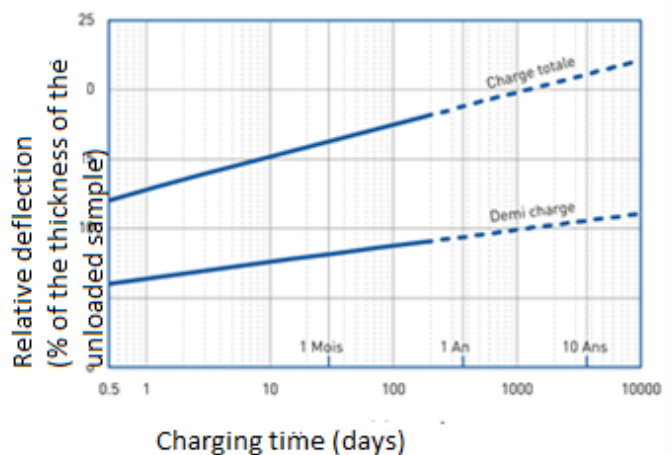
Property - material	Value	Norm
Material	Cellular polyurethane (PUR)	-
Max. width	0.5m	-
Max. length	2.0 m	-
Thickness	12.5 – 25 – 37.5 - 50mm	-
Own frequency	17 → 7 Hz	-
Elongation at break	> 400%	DIN 53513
Elasticity at rebound	50 %	DIN ISO 8307
Operating temperature	-30°C to +70°C	-
Extreme temperature	+120°C	-
Flammability	Class E	EN ISO 11925-1

This information is based on the state of our current knowledge. (04/2016) .The data are subject to normal manufacturing tolerances and can not be guaranteed. We reserve the right to adjust this data.

2. Vibration isolation



3. Creep curves



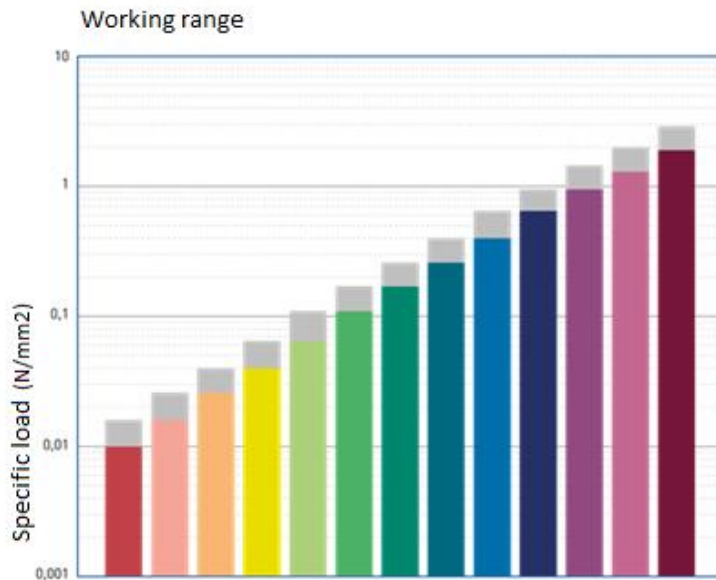
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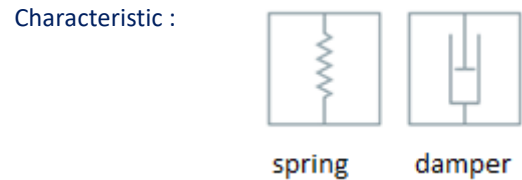
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Material : Mixed cellular polyetherurethane.



Delivery specifications :

Thickness : 12.5 mm and 25 mm
Mats : 0.5 m or 1.0 m wide*, 2.0 m long
Stripes : max.2.0 m long

Other dimensions on request (also stamping parts, moulded parts). *Maximum width depends on type.

Properties															Test method
Colour	red	pink	orange	yellow	bright green	green	dark green	petrol	blue	dark blue	dark violet	violet	bordeaux red		
Static loads [N/mm ²] ¹	0.010	0.016	0.026	0.040	0.065	0.110	0.170	0.260	0.400	0.650	0.950	1.300	1.9000		
Dynamic loads [N/mm ²] ¹	0.016	0.026	0.040	0.065	0.110	0.170	0.260	0.400	0.650	0.950	1.450	2.000	2.800		
Load peaks [N/mm ²] ¹	0.5	0.7	1.0	2.0	2.5	3.0	3.5	4.0	4.5	5.5	6.0	6.5	7.0		
Mechanical loss factor ²	0.25	0.24	0.22	0.15	0.18	0.12	0.13	0.11	0.10	0.10	0.10	0.09	0.09	DIN53513 ³	
Static E-modulus ²	0.048	0.111	0.129	0.316	0.453	0.861	0.931	1.64	2.72	4.57	8.16	12.0	20.4	DIN53513 ³	
Dynamic E-modulus ²	0.144	0.328	0.443	0.743	1.06	1.86	2.27	3.63	5.27	10.4	21.5	35.2	78,2	DIN53513 ³	
Static shear modulus [N/mm ²] ²	0.04	0.07	0.09	0.13	0.17	0.21	0.29	0.41	0.53	0.68	0.93	1.23	1,75	DIN53513 ³	
Dynamic shear modulus [N/mm ²] ²	0.09	0.14	0.17	0.24	0.33	0.49	0.73	1.00	1.15	1.85	2.84	3.51	6,00	DIN53513 ³	
Resistance to strain at 10% deformation [N/mm ²]	0.011	0.018	0.026	0.046	0.073	0.130	0.170	0.270	0.370	0.590	0.930	1.340	1,840		
Residual compression set [%]	<5	<5	<5	<5	<5	<5	<5	<5	<6	<7	<9	<9	<8	DIN 53455-6-4	
Tensile strength [N/mm ²]	>0.35	>0.40	>0.45	>0.55	>0.70	>0.95	>1.25	>1.65	>2.25	>3.00	>3.80	>4.40	>5,00	DIN 53455-6-4	
Elongation at break [%]	>400	>400	>400	>400	>400	>400	>400	>400	>400	>400	>400	>400	>400	DIN ISO 34-1/A	
Tear resistance [N/mm]	>0.6	>0.7	>0.9	>1.1	>1.3	>1.9	>2.5	>2.9	>3.2	>3.8	>5.2	>5.4	>6,0	DIN EN ISO8307	
Rebound elasticity [%]	50	50	50	50	50	50	50	45	45	45	45	40	40	DIN IEC 93	
Specific volume resistance [Q-cm]	>10 ¹²	>10 ¹²	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	>10 ¹¹	DIN 52612-1	
Thermal conductivity [W/(m·k)]	0.05	0.05	0.06	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.11	0,11		
Operating temperature [°C]	-30 to +70														
Temperature peak [°C]	+120														
Inflammability	Class E/EN 13501-1														
	EN ISO 11925-1														

- 1.Values apply to form factor Q=3
- 2.Measured at maximum limit of static application range.
- 3.Test according to respective standards.



Information on the emission level of volatile substances in the indoor air, with a risk of inhalation toxicity, on a class scale from A (very low emissions) to C (high emissions).

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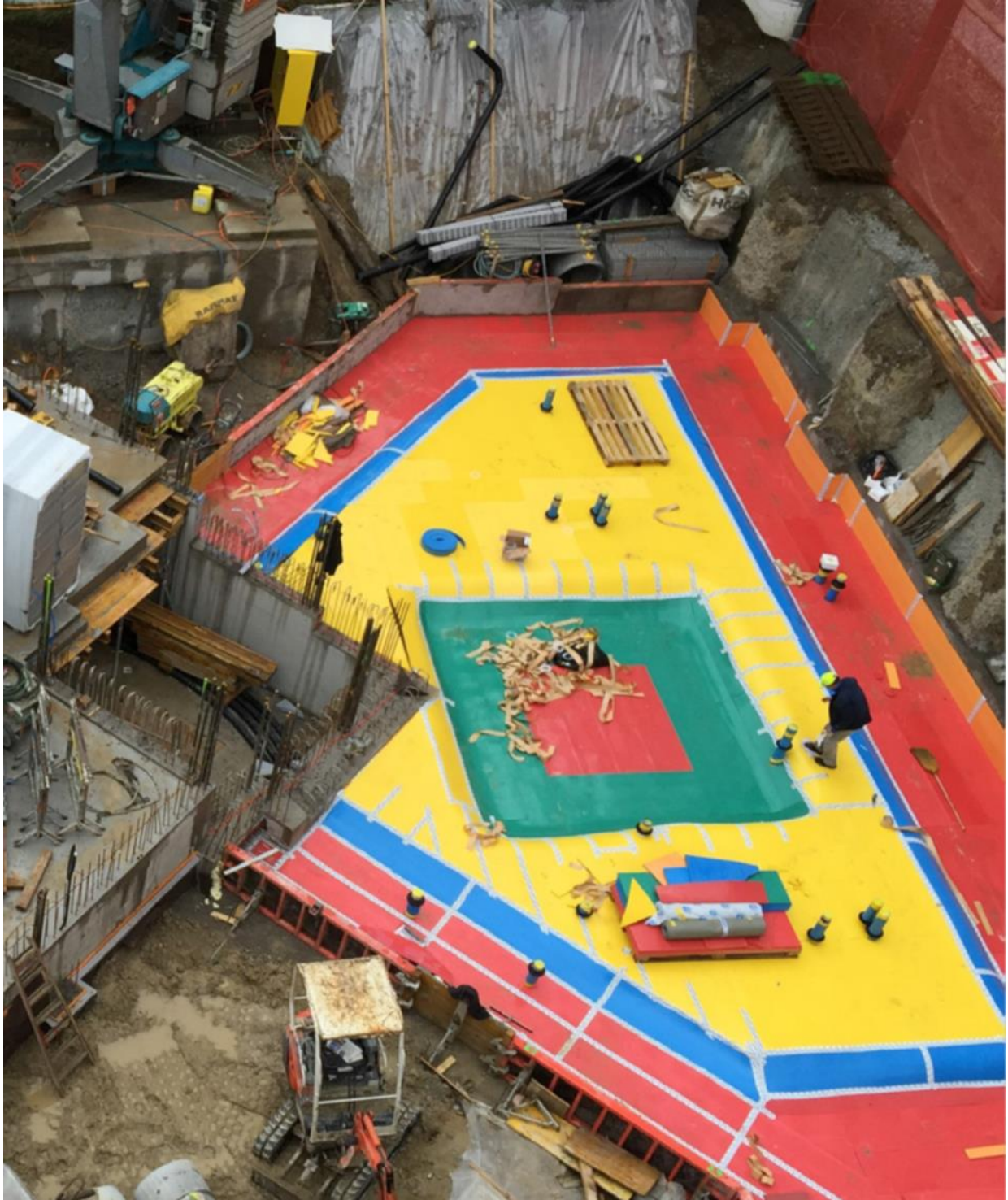
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For further information, please contact your Leviat office.

Belgium : info.plaka.be@leviat.com / + 32 (0) 2 582 29 45

France : info.plaka.fr@leviat.com / +33 (0) 5 34 25 54 82