

PLAKA - UNREINFORCED BEARING SBR
Unreinforced rubber bearing pads and strips – quality SBR

REF 07.01.01 - Version V01 - 17/08/2020



Description



Rubber bearing pads or rolls, carrying a vertical and/or a horizontal loads and allowing defined horizontal displacements and rotation movements.

Application fields

- Support of vertical loads
- Allow a rotation δ , without inducing tensile stresses outside of the core.
- Allow a horizontal movement W

Properties

Mechanical properties	
Rubber quality	SBR
Density	1.41 +/- 0.05 kg/l
Hardness	70 +/- 5 Shore A
Tensile strength	$\geq 4 \text{ N/mm}^2$
Max. permissible compression stress (SLS)	5 N/mm^2
Elongation at break	$\geq 200 \%$
Colour	Black
Aspect	Smooth on both sides
Thickness	3, 4, 5, 8, 10, 15,20, 25, 30, 40 en 50mm
Coefficient of heat conductivity λ	0.23 W/m.K
Ageing 72 h / 70°C :	
Hardness	+ 2 Shore A
Tensile strength	- 10 %
Elongation at break	- 10%

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Permissible loads (SLS – Service Limit State)

E	b a	50	80	100	120	150	200	250	300	400	500	kN/m	W	αa max
		kN											mm	rad
3	30	5.6	10.5	13.8	17.3	22.5	30.0	37.5	45.0	60.0	75.0	150.0	2.1	0.020
	4	4.2	7.9	10.4	13.0	16.9	23.5	30.1	36.8	50.2	63.7	131.1	2.8	0.027
5	30	3.4	6.3	8.3	10.4	13.5	18.8	24.1	29.5	40.2	50.9	104.9	3.5	0.033
	40	5.3	10.2	13.7	17.3	22.7	32.0	41.4	50.8	69.8	88.9	184.6	3.5	0.025
	50	7.5	14.8	20.0	25.4	33.8	48.0	62.5	75.0	100.0	125.0	250.0	3.5	0.020
	60		19.7	27.0	34.6	45.0	60.0	75.0	90.0	120.0	150.0	300.0	3.5	0.017
10	80		30.7	40.0	48.0	60.0	80.0	100.0	120.0	160.0	200.0	400.0	3.5	0.013
	50	3.8	7.4	10.0	12.7	16.9	24.0	31.3	38.6	53.3	68.2	142.9	7.0	0.040
	80		15.4	21.3	27.6	37.6	54.9	72.7	90.9	128.0	165.5	355.6	7.0	0.025
	100			30.0	39.3	54.0	80.0	107.1	135.0	192.0	250.0	500.0	7.0	0.020
	120				51.8	72.0	108.0	145.9	180.0	240.0	300.0	600.0	7.0	0.017
	150					101.3	150.0	187.5	225.0	300.0	375.0	750.0	7.0	0.013
15	200					200.0	250.0	300.0	400.0	500.0	1000.0	7.0	0.010	
	80		10.2	14.2	18.4	25.0	36.6	48.5	60.6	85.3	110.3	237.0	10.5	0.038
	100			20.0	26.2	36.0	53.3	71.4	90.0	128.0	166.7	363.6	10.5	0.030
	150					67.5	102.9	140.6	180.0	261.8	346.2	750.0	10.5	0.020
	200						160.0	222.2	288.0	400.0	500.0	1000.0	10.5	0.015
20	250							312.5	375.0	500.0	625.0	1250.0	10.5	0.012
	300								450.0	600.0	750.0	1500.0	10.5	0.010
	100			15.0	19.6	27.0	40.0	53.6	67.5	96.0	125.0	272.7	14.0	0.040
	150					50.6	77.1	105.5	135.0	196.4	259.6	587.0	14.0	0.027
	200						120.0	166.7	216.0	320.0	428.6	1000.0	14.0	0.020
	250							234.4	306.8	461.5	625.0	1250.0	14.0	0.016
25	300								405.0	600.0	750.0	1500.0	14.0	0.013
	350									700.0	875.0	1750.0	14.0	0.011
	400									800.0	1000.0	2000.0	14.0	0.010
	150					40.5	61.7	84.4	108.0	157.1	207.7	469.6	17.5	0.033
	200						96.0	133.3	172.8	256.0	342.9	800.0	17.5	0.025
	250							187.5	245.5	369.2	500.0	1200.0	17.5	0.020
500	300								324.0	493.7	675.0	1500.0	17.5	0.017
	400									768.0	1000.0	2000.0	17.5	0.013
500											1250.0	2500.0	17.5	0.010

Dimensions

Material dimensions					
BEARINGS IN ROLLS					
Picture	Reference code	E (mm)	Width B (mm)	m/Box	Kg/m
	BSB03030	3	30	10	0.13
	BSB03040	3	40	10	0.17
	BSB04030	4	30	10	0.17
	BSB04040	4	40	10	0.23
	BSB05050	5	50	10	0.35
	BSB05100	5	100	10	0,70
	BSB08050	8	50	10	0.56

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BEARINGS IN SHEETS

Picture	Reference code	E (mm)	Dimensions (m)	p/Box	Kg/m ²
	BSE05P	5	1 x 1.20	1	7.50
	BSE08P	8	1 x 1.20	1	12.00
	BSE10P	10	1 x 1.20	1	15.00
	BSE15P	15	1 x 1.20	1	22.50
	BSE20P	20	1 x 1.20	1	30.00
	BSE25P	25	1 x 1.20	1	37.50
	BSE30P	30	1 x 1.20	1	45.00
	BSE40P	40	1 x 1.20	1	60,00
	BSE50P	50	1 x 1.20	1	75,00

On the basis of a clear drawing (see example below) bearing pads can be cut on the required dimensions in our premises. Holes can also be drilled into the pads at the right position.

