



Iberográfica

Capa Rota - Portugal

Brand R

**Compressibility
Deflection_k**

Doc. PROC - LAB - 019

Data: 18 - 04 - 2013

Folha. 1 de 5 Rev. 0

Item #	Brand/Model	Sample #/Job #	D0	D01	D04	Thickness			Deflection				Comp. Loss %	Gauge Loss @				Hysteresis		Elastic Energy EENmm	Damping Capacity (DC)%	Test Time s		
			mm	mm	mm	D4k/3 mm	D5k/3 mm	D1 mm	D4 mm	D5 mm	df1 μm	df5 μm		dfp1 %	dfp5 %	1 st cycle μm	60kPa 1 st % μm	1060kPa μm	Wk/3 μm				Energy HENmm	
1	R/I(3P)	R1/II358470/E2742	1,94	1,90	1,89	1,81	1,83	1,75	1,74	1,74	196	156	10,1	8,2	20,3	41	87,9	47	7	11,6	0,97	7,5	12,9	90,6
2	R/I(3P)	R1/II358470/E2742	1,94	1,90	1,89	1,81	1,82	1,74	1,73	1,73	202	159	10,4	8,4	21,3	42	83,8	50	7	13,0	0,85	7,7	11,0	94,7
3	R/I(3P)	R3/II358470/E2742	1,95	1,91	1,90	1,82	1,83	1,75	1,75	1,75	195	154	10,0	8,1	20,9	41	87,1	47	7	11,9	0,93	7,5	12,4	90,5
4	R/II(4P)	R4/N90919VL06Ofg	1,96	1,91	1,90	1,82	1,83	1,75	1,74	1,74	215	166	10,9	8,7	22,5	48	84,3	58	9	16,6	1,18	8,2	14,4	97,7
5	R/II(4P)	R5/N90919VL06Ofg	1,96	1,91	1,90	1,81	1,83	1,74	1,73	1,73	218	163	11,1	8,6	25,1	51	83,5	62	7	14,4	1,00	7,9	12,6	97,4
6	R/III(3P)	R6/N89819VL05OW	1,92	1,88	1,88	1,79	1,80	1,70	1,70	1,70	220	181	11,5	9,6	18,1	40	86,1	46	7	16,2	1,13	8,9	12,7	104,7
7	R/III(3P)	R7/N89819VL05OW	1,93	1,89	1,88	1,79	1,81	1,71	1,70	1,70	222	183	11,5	9,7	17,7	42	87,3	48	9	15,9	1,32	9,1	14,6	105,7

LEGEND

Test Details

Standard: ISO 12636 section 4.4
Sample area: 700 mm²
Equipment: Lloyd LR 10K Plus
Speed: 1 mm/min
Test Time: (D5-D0) s

Thickness

D0; D01; D04: @ 60kPa
D4k/3; D5k/3: @ 393kPa
D1; D4, D5: @ 1060kPa

Deflection (@ 1060kPa)

df1 = (D0 - D1) mm
df5 = (D04 - D5) mm

dfp1 = $[(D0 - D1) / D0] * 100$ %
dfp5 = $[(D04 - D5) / D04] * 100$ %

Compressive Loss

Deflection reduction from the 1st to the 5th compression cycles.
CL = $[(df1 - df5) / df1] * 100$ %

Gauge Loss @

60kPa: 1st Cycle: (D0 - D01) μm
1st %: 1stCycle/Full Test %
 $[(D0 - D01)/(D0 - D04)] * 100$ %
Full Test: (D0 - D04) μm
1060kPa: (D1 - D5) μm

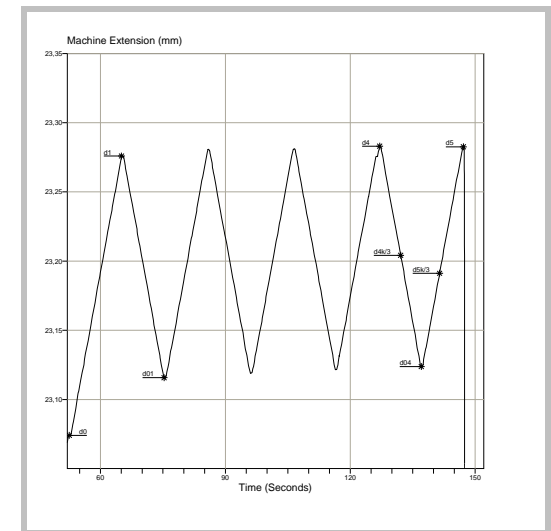
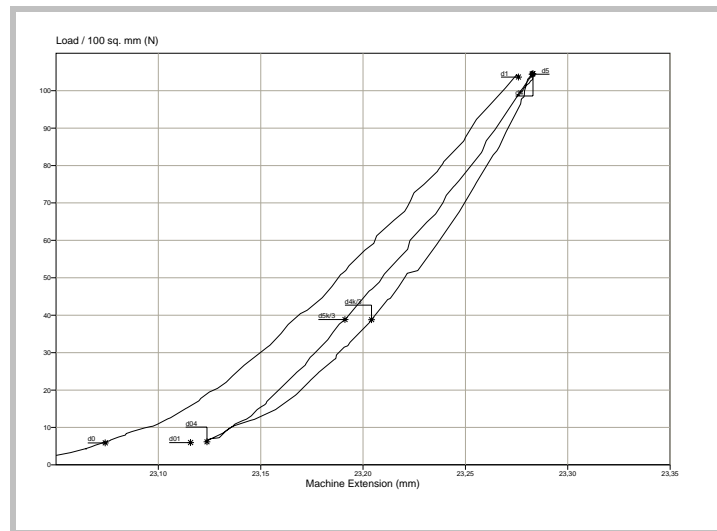
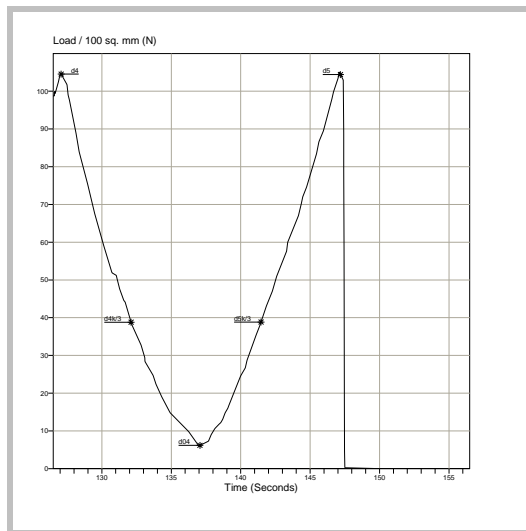
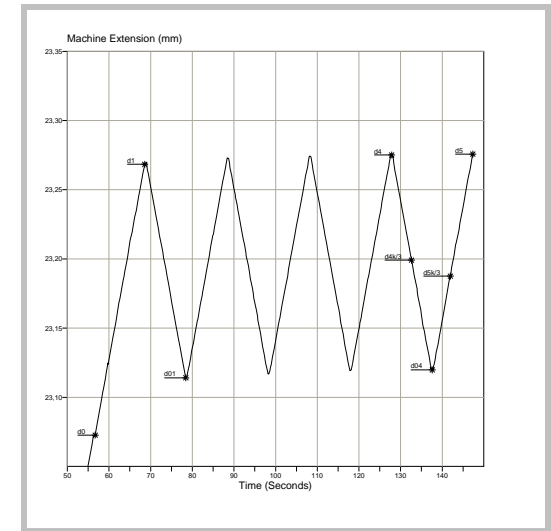
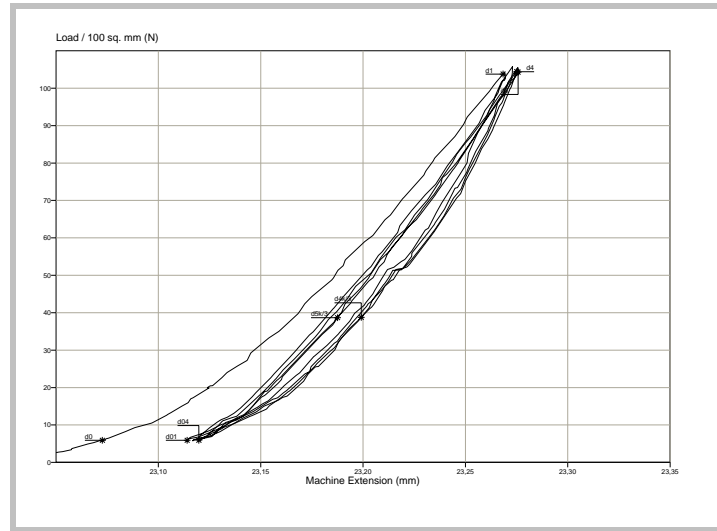
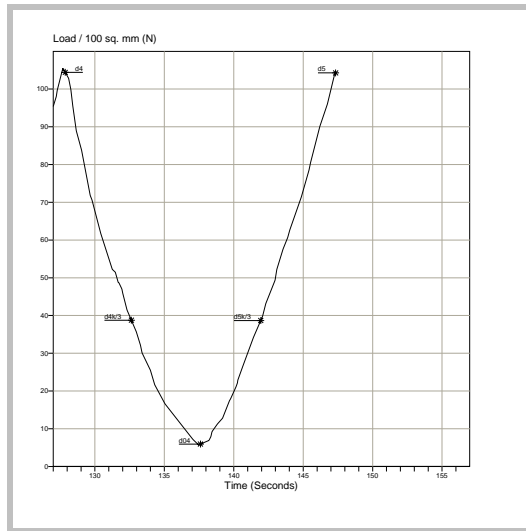
Hysteresis

Values valid for a specific stress cycle
W(window):Gauge variation due to stress history
Wk/3: Gauge variation@393kPa (D5k/3-D4k/3) μm

HE: Heat generated in one cycle (D5-D4) Nmm
EE: Elastic deformation energy (D5-D04) Nmm
DC: Damping Capacity $[(D5-D4)/(D5-D04)] * 100$ %

Default Extension W : 0,30 mm

NOTE : To enable comparison with Indentation Test results (section 4.5), figures were scaled down to 100 sq. mm sample area.





Iberográfica

Capa Rota - Portugal

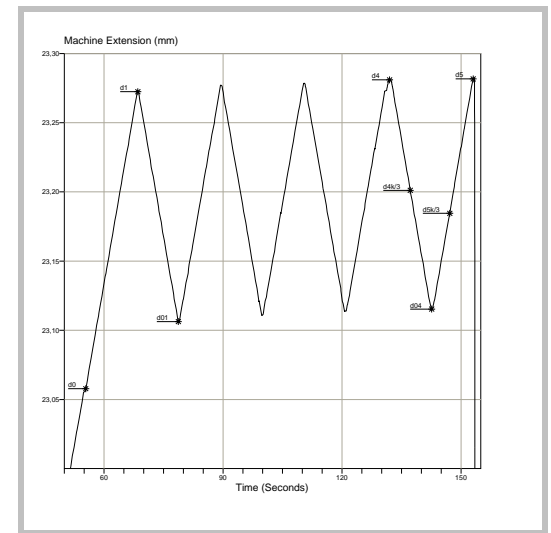
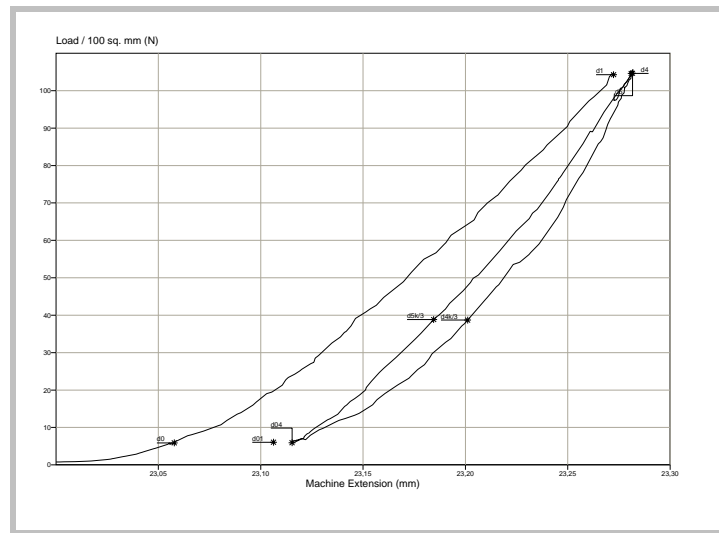
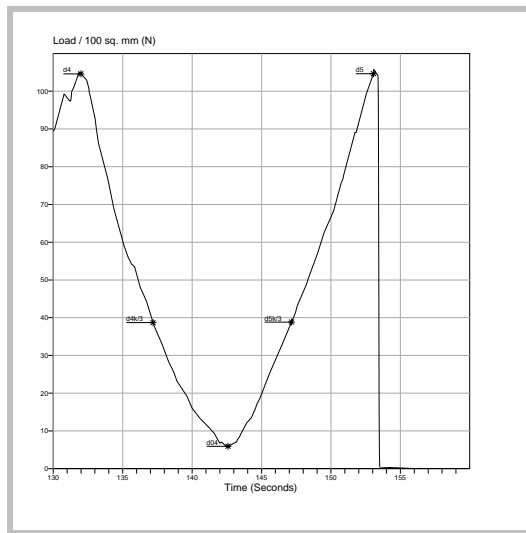
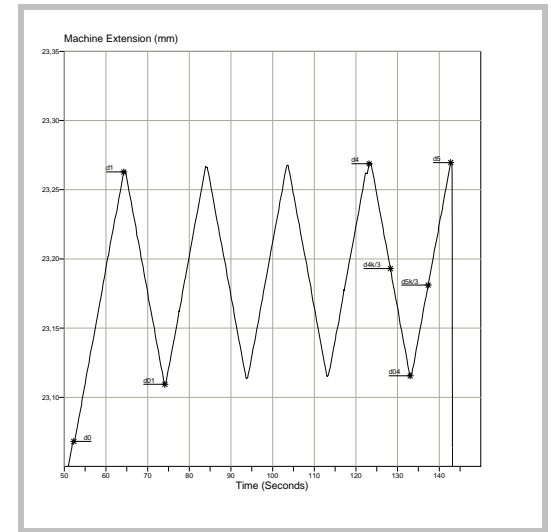
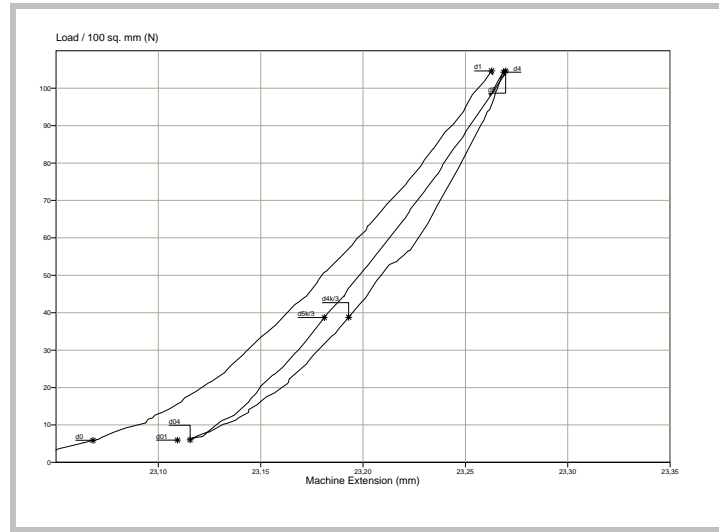
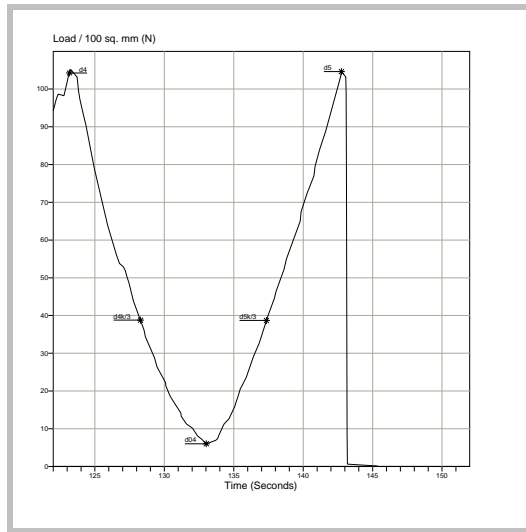
Brand R

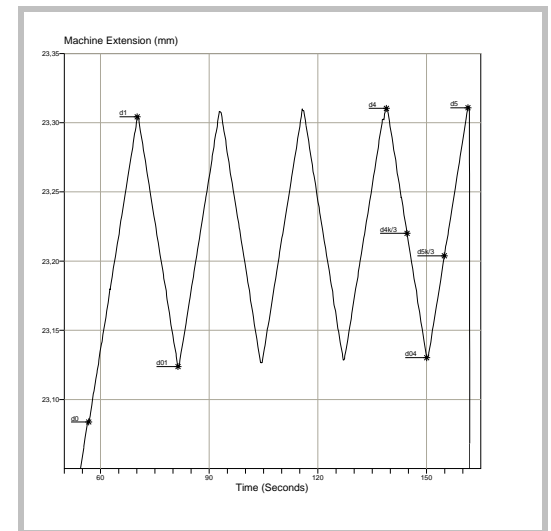
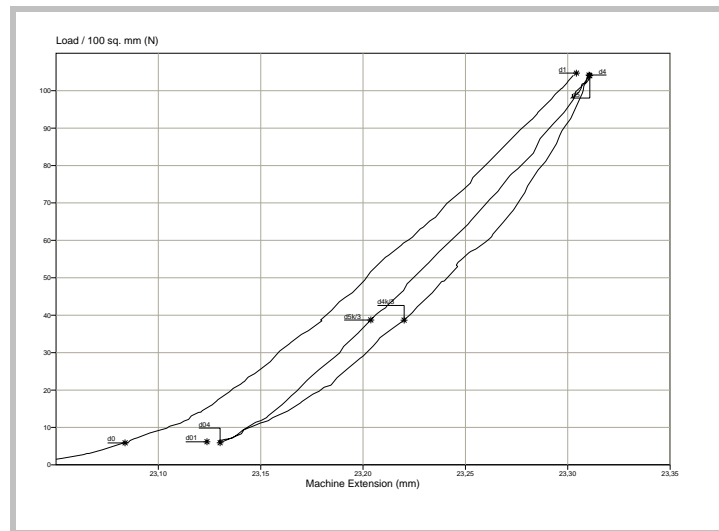
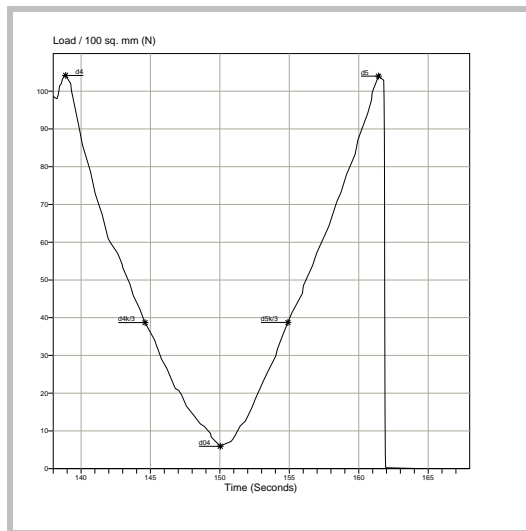
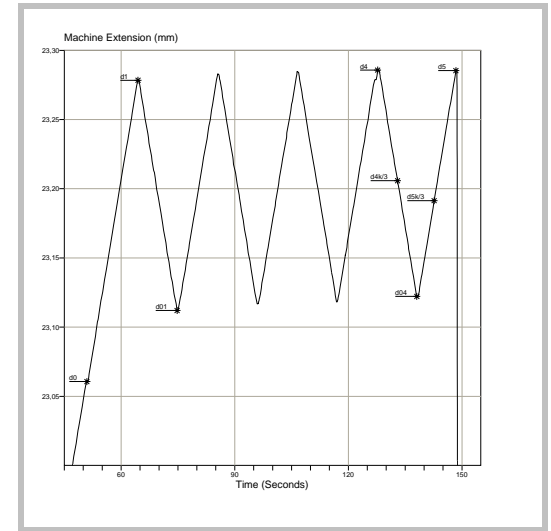
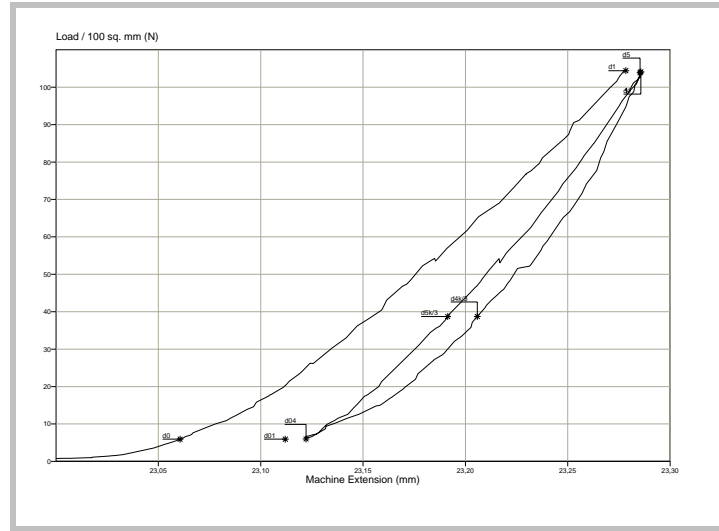
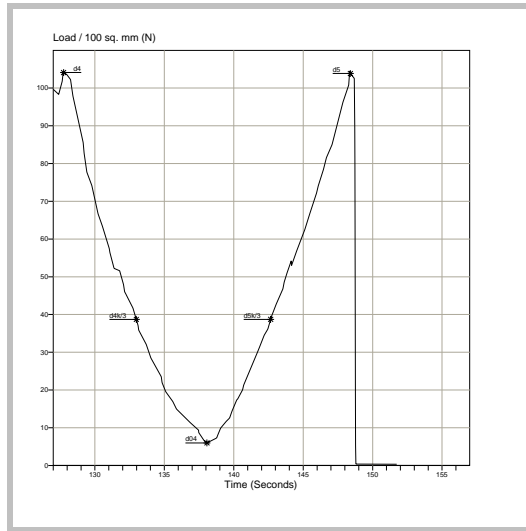
Compressibility
Deflection_k

Doc. PROC - LAB - 019

Data: 18 - 04 - 2013

Folha. 3 de 5 Rev. 0







Iberográfica

Capa Rota - Portugal

Brand R

Compressibility
Deflection_k

Doc. PROC - LAB - 019

Data: 18 - 04 - 2013

Folha. 5 de 5 Rev. 0

