Iberográfica Capa Rota - Portugal	Brand A	**Compressibility** Deflection_k	Doc. PROC - LAB - 019 Data: 02 - 02 - 2012 Folha. 1 de 1	Rev. 0

Item #	Brand /Model	Sample #/ / Job #	D0	D01	D04	D4k/3	D5k/3	D1	D4	D5	df1	df5	dfp1	dfp5	Comp. Loss	Gauge Loss @ 1st cycle	Gauge Loss @ 1st%	Gauge Loss @ 60kPa	Gauge Loss @ 1060kPa	Hysteresis Wk/3	Hysteresis Energy HENmm	Elastic Energy EENmm	Damping Capacity (DC)%	Test Time s
			Thickness								Deflection													
			mm	mm	mm	mm	mm	mm	mm	mm	µm	µm	%	%	%	µm	1st%	µm	µm	µm	HENmm	EENmm	(DC)%	s
1	A/I	V1/64090	1,93	1,90	1,89	1,79	1,81	1,71	1,70	1,70	225	186	11,6	9,9	17,4	38	81,4	46	7	22,9	1,49	9,5	15,8	107,8
2	A/II	V8/63106	1,99	1,96	1,95	1,87	1,89	1,80	1,79	1,79	190	158	9,5	8,1	16,7	34	80,0	42	10	16,2	1,25	8,0	15,6	91,1
3	A/II	V9/63106	1,94	1,91	1,91	1,82	1,84	1,74	1,74	1,74	197	173	10,2	9,1	12,2	26	83,2	32	7	18,9	1,32	8,8	15,0	99,4
4	A/II	V9/63106	1,93	1,91	1,90	1,81	1,83	1,73	1,73	1,73	199	175	10,3	9,2	12,1	27	86,4	31	7	20,3	1,20	8,8	13,7	100,2
5	A/III	V13/50938	1,95	1,92	1,91	1,82	1,84	1,74	1,73	1,73	212	180	10,8	9,4	15,1	32	80,6	39	7	21,2	1,33	9,1	14,7	103,9
6	A/III	V16/55459	1,92	1,90	1,89	1,79	1,82	1,71	1,70	1,70	214	188	11,1	10,0	11,9	27	81,3	33	8	22,8	1,39	9,4	14,8	107,9

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
Default Time W : 30"

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

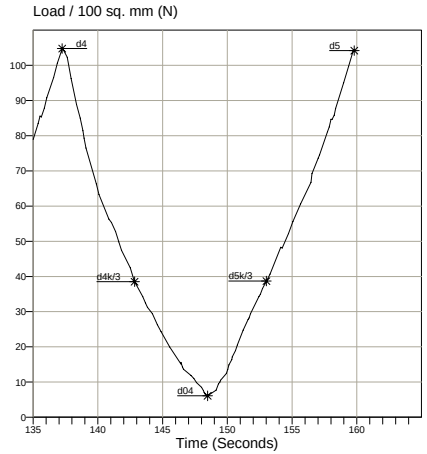
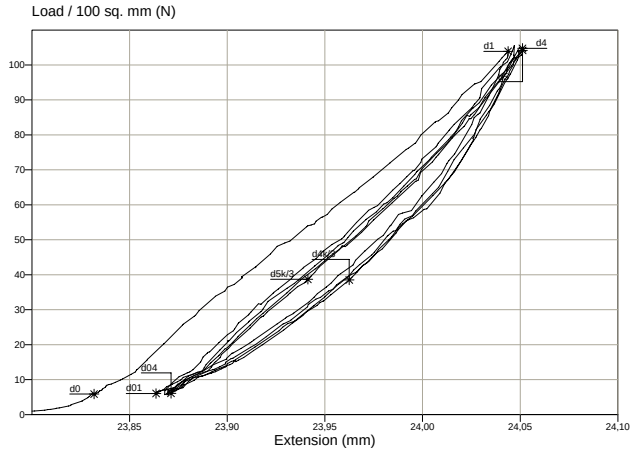
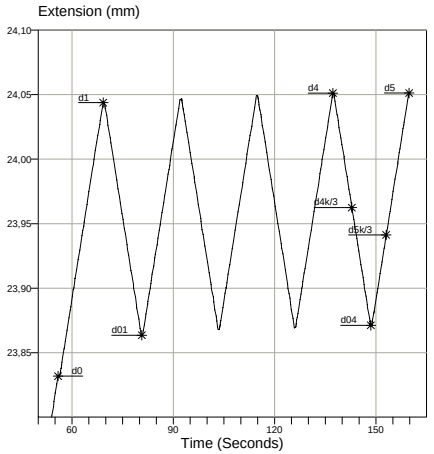
Deflection (@ 1060kPa)
df1 = (D0 - D1) mm
df5 = (D04 - D5) mm

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

Default Extension W : 0,30 mm

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]%