Iberográfica Capa Rota - Portugal	Brand L	**Compressibility** Deflection	Doc. PROC - LAB - 014 Data: 02 - 02 - 2012 Folha. 1 de 1 Rev. 0

Item #	Brand/ /Model	Sample # / Batch #	D0	D01	D04	D4k/2	D5k/2	D1k	D4k	D5k	D1	D4	D5	Df1	Df5	Dfp1	Dfp5	Comp. Loss	Gauge Loss @ 1st Cycle	Gauge Loss @ 1 60kPa	Gauge Loss @ 1st%	Gauge Loss @ 1060kPa	Gauge Loss @ 2060kPa	Hysteresis Wk/2	Hysteresis Wk	Hysteresis Energy (HE)	Elastic Energy (EE)	Damping Capacity (DC)	Test Time
			Thickness											Deflection															
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	µm	µm	%	%	%	µm		1st%	µm	µm	µm	µm	µm	Nmm	Nmm	%	s
1	L/II	K1/Mhet9481	1,97	1,93	1,92	1,83	1,85	1,82	1,78	1,79	1,71	1,70	1,70	254	217	12,9	11,3	14,6	36	79,5	46	26	9	19	17	18,0	141,6	12,7	125,1
2	L/II	K2/Mhet9481	1,97	1,93	1,92	1,83	1,85	1,82	1,78	1,80	1,72	1,71	1,71	253	218	12,8	11,3	13,9	35	79,4	44	25	9	19	17	19,9	143,5	13,9	124,6
3	L/II	K3/Mhet9481	1,97	1,94	1,93	1,84	1,85	1,83	1,78	1,80	1,72	1,71	1,71	255	216	12,9	11,2	15,3	39	81,0	48	30	9	17	16	17,8	141,7	12,6	124,5
4	L/II	183/Det5610	1,97	1,93	1,92	1,81	1,83	1,80	1,75	1,77	1,69	1,68	1,68	281	240	14,3	12,5	14,4	41	81,3	51	28	11	22	20	21,0	153,5	13,7	138,1
5	L/II	K5/Det5610	1,97	1,93	1,92	1,82	1,84	1,80	1,75	1,77	1,69	1,68	1,68	285	240	14,5	12,5	15,8	43	79,9	54	23	8	21	22	22,5	154,0	14,6	138,4
6	L/II	K6/Det5610	1,97	1,93	1,92	1,82	1,84	1,80	1,76	1,77	1,69	1,68	1,68	285	240	14,4	12,5	15,7	45	85,2	53	26	9	22	19	22,8	154,5	14,7	137,4

LEGEND

Test Details

Standard:
ISO 12636 section 4.4

Equipment:
Lloyd LR 10K Plus
Speed: 1 mm/min
Test Time: (D5-D0) s
Default Time W : 50"

Thickness

D0; D01; D04: @ 60kPa
D4k/2; D5k/2: @ 560kPa
D1k; D4k; D5k: @ 1060kPa
D1; D4, D5: @ 2060kPa

Deflection (@ 2060kPa)

Df1 = (D0 - D1) mm
Df5 = (D04 - D5) mm

Dfp1 = [((D0 - D1) / D0) * 100] %
Dfp5 = [((D04 - D5) / D04) * 100] %

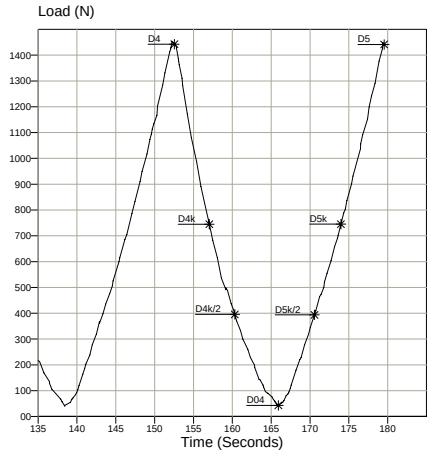
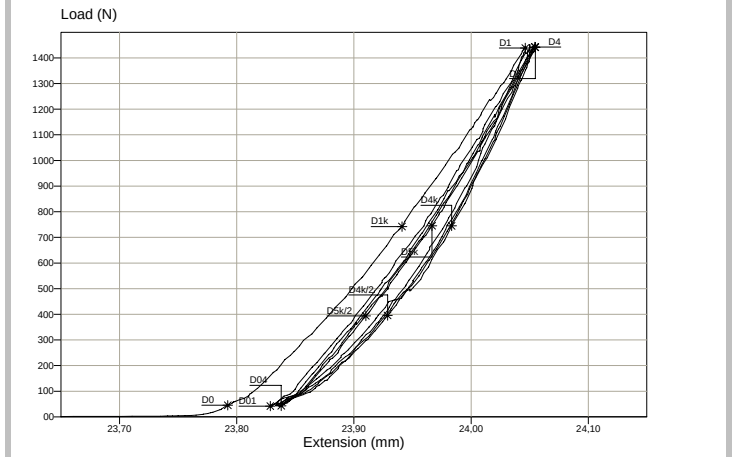
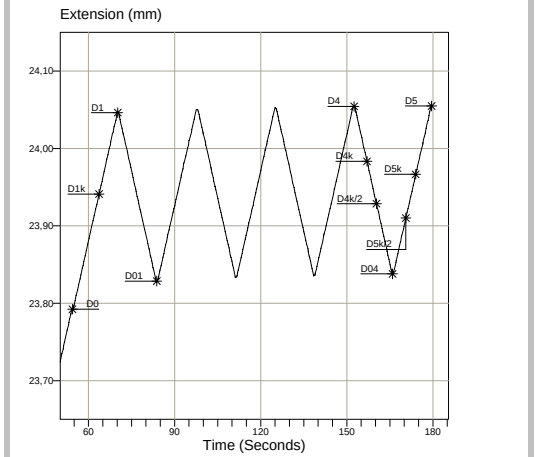
Default Extension W : 0,50 mm

Compressive Loss

Deflection reduction from the 1st to the 5th compression cycles.
CL = [((Df1-Df5) / Df1)*100] %

Gauge Loss @

60kPa: 1stCycle: (D0 - D01) µm
1st%: 1stCycle/Full Test %
[((D0 - D01)/(D0 - D04))*100]%
Full Test: (D0 - D04) µm
1060kPa: (D1k - D5k) µm
2060kPa: (D1 - D5) µm

Hysteresis

Values valid for a specific stress cycle
W(window): Gauge variation due to stress history
Wk/2: Gauge variation @560kPa (D5k/2-D4k/2) µm
Wk: Gauge variation @1060kPa (D5k-D4k) 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] %