

Item #	Brand /Model	Sample #/ / Job #	Thickness					Indentation				Comp. Loss %	Gauge Loss @				Hysteresis		Elastic Energy EENmm	Damping Capacity (DC)%	Test Time s			
			D0	D01	D04	D4k/3	D5k/3	D1	D4	D5	I1		I5	Ip1	Ip5	1 st cycle	60kPa	1060kPa				Wk/3	Energy HENmm	
1	M/I	PD9	1,96	1,93	1,92	1,87	1,89	1,82	1,81	1,81	138	115	7,1	6,0	16,9	30	82,6	37	13	15,9	1,1	6,5	16,6	66,4
2	M/II	PD15	1,99	1,95	1,94	1,89	1,90	1,84	1,83	1,82	146	118	7,3	6,1	19,1	35	79,6	43	16	14,2	1,1	6,5	16,8	69,3
3	M/III	PD12	1,97	1,94	1,94	1,90	1,91	1,85	1,84	1,84	121	101	6,2	5,2	16,6	24	77,7	32	11	13,2	0,9	5,8	14,7	59,0
4	M/IV	PD16	1,97	1,94	1,93	1,88	1,90	1,84	1,83	1,83	130	105	6,6	5,4	19,5	31	87,2	35	10	14,8	0,9	5,8	16,2	60,9
5	M/V	PD21	1,96	1,92	1,91	1,86	1,88	1,82	1,81	1,81	146	109	7,4	5,7	25,5	39	81,6	48	11	16,9	1,0	5,7	17,0	64,4

LEGEND

Test Details

Standard: ISO 12636 section 4.5
Equipment: Lloyd LR 10K Plus
Speed: 1 mm/min
Test Time: (D5-D0) s
Default Time W : 20"

Thickness

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

Indentation (@ 1060kPa)

I1 = (D0 - D1) mm
I5 = (D04 - D5) mm

Ip1 = $\frac{D0 - D1}{D0} * 100\%$
Ip5 = $\frac{D04 - D5}{D04} * 100\%$

Default Extension W : 0,23 mm

Compressive Loss

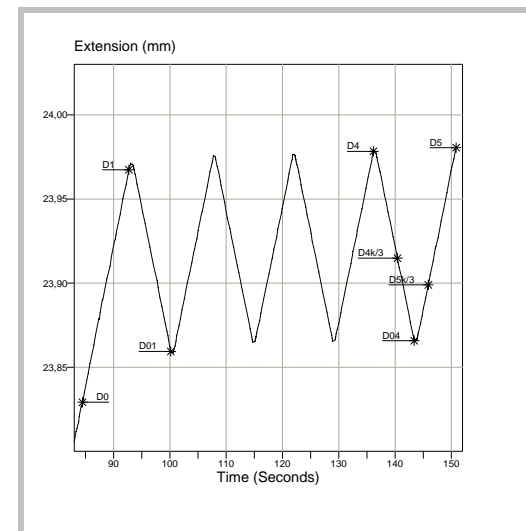
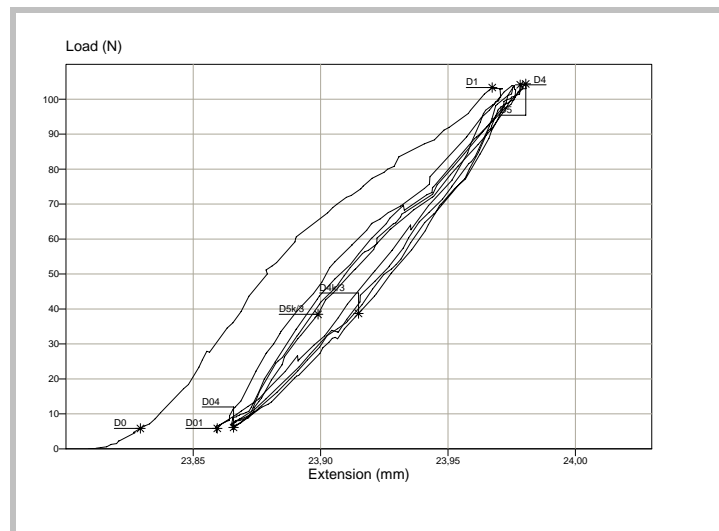
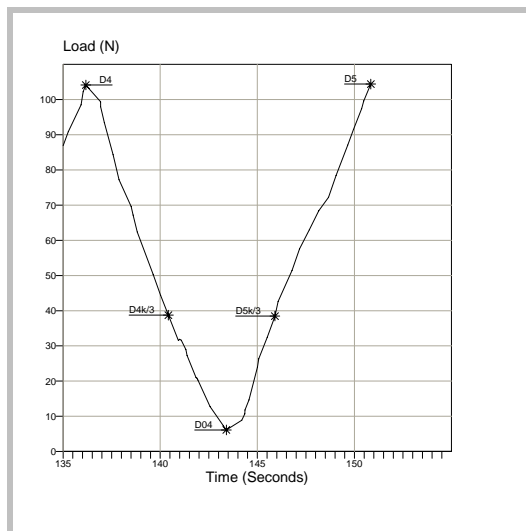
Indentation reduction from the 1st to the 5th compression cycles.
CL = $\frac{I1 - I5}{I1} * 100\%$

Gauge Loss @

60kPa: 1st Cycle: (D0 - D01) μm
1st cycle: 1stCycle/Full Test %
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 $\frac{D5-D4}{D5-D04} * 100\%$





Iberográfica

Capa Rota - Portugal

Brand M Model Comparison

Compressibility Indentation

Doc. PROC - LAB - 015A

Data: 02 - 02 - 2012

Folha. 2 de 3 Rev. 0

