



Iberográfica

Capa Rota - Portugal

Brand R

**Compressibility
Deflection 2k**

Doc. PROC - LAB - 014

Data: 18 - 04 - 2013

Folha. 1 de 7 Rev. 0

Item #	Brand/Model	Sample #/Batch #	Thickness									Deflection				Comp. Loss %	Gauge Loss @				Hysteresis			Elastic Energy (EE) Nmm	Damping Capacity (DC) %	Test Time s			
			D0	D01	D04	D4k/2	D5k/2	D1k	D4k	D5k	D1	D4	D5	Df1	Df5		Dfp1	Dfp5	1 st Cycle	160kPa	1060kPa	2060kPa	Wk/2				Wk	Energy (HE) Nmm	
1	R/I(3P)	R1/II358470/E2742	1,92	1,87	1,86	1,75	1,77	1,73	1,68	1,70	1,61	1,60	1,60	317	264	16,5	14,2	16,8	53	81,5	65	28	11	25	27	27,8	171,8	16,2	150,3
2	R/I(3P)	R2/II358470/E2742	1,94	1,88	1,87	1,75	1,78	1,74	1,68	1,71	1,61	1,60	1,60	334	276	17,2	14,8	17,3	59	85,3	69	31	11	26	29	26,2	178,5	14,7	158,8
3	R/I(3P)	R3/II358470/E2742	1,94	1,88	1,87	1,75	1,78	1,74	1,68	1,71	1,61	1,60	1,60	325	266	16,8	14,3	18,1	60	82,9	72	33	13	30	29	29,0	175,3	16,5	154,0
4	R/II(4P)	R4/N90919VL06ofg	1,95	1,89	1,88	1,75	1,78	1,74	1,69	1,71	1,62	1,61	1,61	332	264	17,0	14,1	20,4	62	81,0	77	33	9	26	21	25,0	162,4	15,4	154,3
5	R/II(4P)	R5/N90919VL06ofg	1,96	1,90	1,88	1,76	1,78	1,74	1,69	1,71	1,62	1,62	1,62	341	268	17,4	14,2	21,4	67	82,3	81	31	8	27	22	25,3	163,5	15,5	156,6
6	R/III(3P)	R6/N89819VL05ow	1,93	1,88	1,87	1,73	1,76	1,71	1,65	1,68	1,58	1,57	1,57	353	303	18,3	16,2	14,1	48	82,9	58	32	8	34	28	27,8	186,5	14,9	173,6
7	R/III(3P)	R7/N89819VL05ow	1,94	1,88	1,87	1,74	1,77	1,72	1,66	1,68	1,58	1,57	1,57	357	303	18,4	16,2	15,1	53	84,0	63	32	9	34	29	29,5	189,0	15,6	173,3

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 $[(D5-D4)/(D5-D04)]*100$ %



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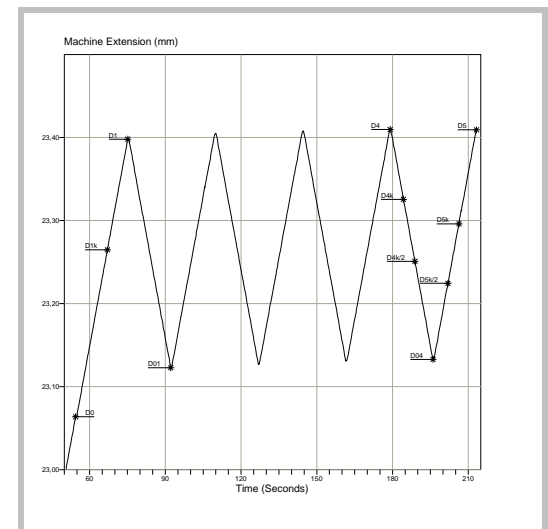
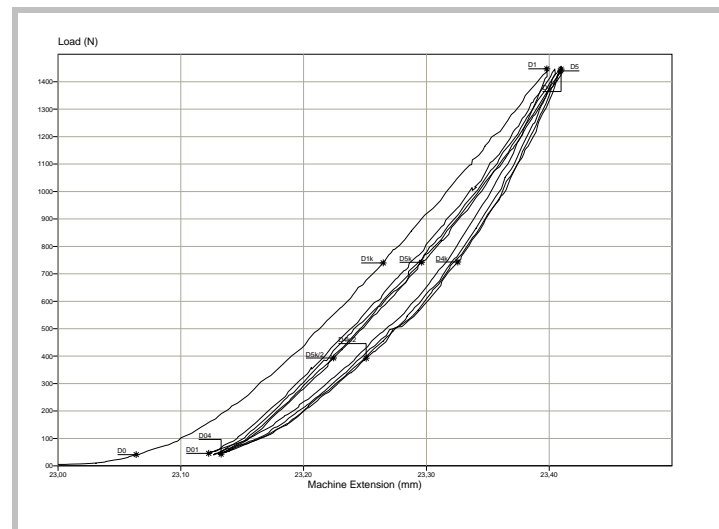
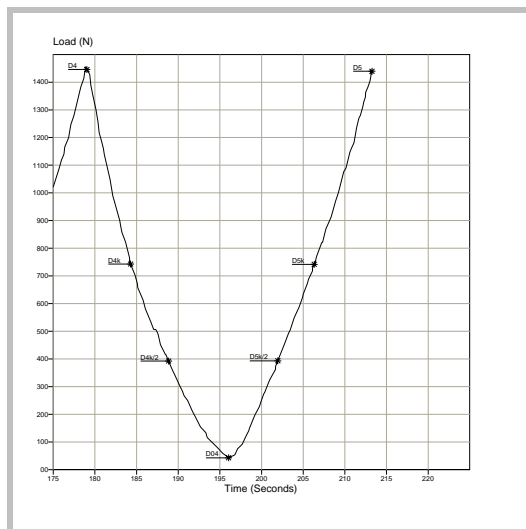
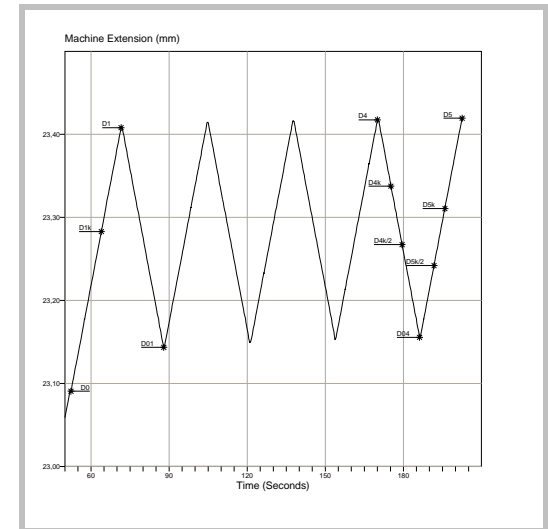
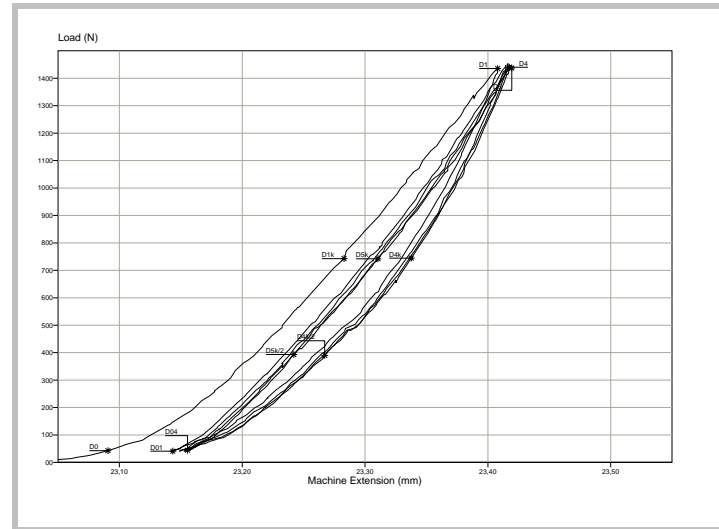
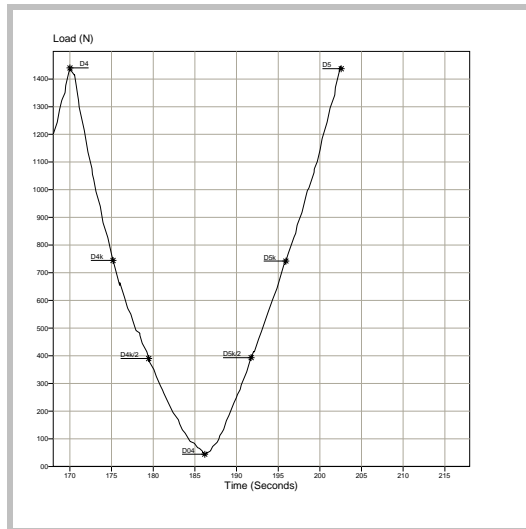
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Folha. 2 de 7 Rev. 0





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