



Iberográfica

Capa Rota - Portugal

Brand D
3Ply Construction

Elongation & Tensile

Doc. PROC- LAB - 009

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Item #	Brand/ /Model	Job #	Length				L-L1 E1%		L-L0 E%		LM-L0 EM%		Young's Modulus MPa	Load@ LM kN	TT Time s
			L0 mm	L1 mm	L mm	LM mm	Yield mm	%	Mounting mm	%	Tensile mm	%			
1	D/IX	701306	320,03	322,07	322,50	336,16	0,43	1,35	2,47	0,77	16,13	5,04	1.388	4,34	619,0
2	D/IX	701306	320,01	321,62	322,00	335,13	0,38	1,17	1,99	0,62	15,11	4,72	1.476	4,22	618,1
3	D/IX	701306	320,01	322,26	322,71	336,19	0,45	1,40	2,70	0,84	16,18	5,06	1.392	4,32	619,0
4	D/IX	701306_used	320,10	322,24	322,56	333,54	0,32	1,00	2,47	0,77	13,45	4,20	1.578	4,02	615,9
5	D/IX	701306_used	320,08	322,14	322,44	334,77	0,30	0,93	2,36	0,74	14,69	4,59	1.557	4,36	617,8
6	D/V	104947	320,04	322,22	322,72	337,43	0,50	1,56	2,68	0,84	17,39	5,43	1.291	4,17	620,4
7	D/V	104947	320,02	322,05	322,56	337,52	0,51	1,58	2,54	0,79	17,50	5,47	1.298	4,31	620,7

Test standard: ISO 12636 4.2 (L0 to L) (*)
4.3 (L to break)

Tester: Lloyd LR 10K Plus
Grips Distance: 320 mm
Sample Dimensions: 50 x 390 mm
(*) - Bench marks not used.
An alternate 1' hold-time short test is also used.
Results may not be comparable with those strictly conducted according to ISO 12636.
Graphs: Item 2

Legend
Extension (mm)
L0: @ 10 N L1: @ 500 N
L : after 10' hold @ 500 N LM: @ break

~"Yield during Print"
L-L1: ΔL after 10' @ 500N (mm)
E1 % = $[(L-L_1)/L_1] * 1000$ %
Default Graph Window Extension: 1 mm

~"Mounting" elongation
L-L0: ΔL after tensioning-&-seating (mm)
E % = $[(L-L_0)/L_0] * 100$ %
According to ISO 12636: E < 1,5 %

Elongation @ LoadM
LM-L0: DL @ Maximum Load (break) (mm)
EM % = $[(L_M-L_0)/L_0] * 100$ %

Modulus: stress/strain gradient @ greatest slope
Young's Modulus: (MPa)
Load @ LM: Max. Load (kN)
TT: test Time (s)

