



**Iberográfica**

Capa Rota - Portugal

**Brand F  
3 Ply 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 %	EM mm %					
1	F / X 3P	-	320,19	323,96	324,52	331,59	0,55	1,70	4,32	1,35	11,39	3,56	1.506	2,58	612,8
2	F / X 3P	-	320,12	323,96	324,58	331,73	0,62	1,91	4,45	1,39	11,60	3,62	1.471	2,63	613,1
3	F / X 3P	509829XAAU	320,02	324,17	324,81	332,96	0,64	1,98	4,79	1,50	12,93	4,04	1.461	3,06	614,5
4	F / X 3P	509829XAAU	320,03	324,13	324,79	333,90	0,65	2,02	4,75	1,48	13,86	4,33	1.441	3,12	615,7
5	F / III 3P	5057999CU	320,18	324,44	325,14	333,61	0,70	2,16	4,96	1,55	13,43	4,19	1.435	3,01	615,0
6	F / III 3P	5013893BU	320,14	324,97	325,55	333,43	0,57	1,76	5,41	1,69	13,29	4,15	1.357	3,21	614,9
7	F / III 3P	5013893BU	320,09	324,54	325,10	333,28	0,56	1,74	5,02	1,57	13,20	4,12	1.373	3,27	614,8
8	F / III 3P	5013893BU	320,23	324,72	325,29	334,05	0,56	1,74	5,06	1,58	13,82	4,31	1.336	3,30	615,6
9	F / I 3P	5027004AU	320,03	323,26	323,84	330,65	0,57	1,78	3,81	1,19	10,62	3,32	1.581	3,27	612,0
10	F / I 3P	5027004AU	320,11	323,18	323,75	331,17	0,57	1,77	3,64	1,14	11,05	3,45	1.509	3,35	612,6
11	F / I 3P	5027004AU	320,24	323,30	323,84	330,79	0,53	1,65	3,60	1,12	10,56	3,30	1.535	3,31	611,9
12	F / I 3P	5015413AU	320,11	323,93	324,78	334,11	0,85	2,61	4,67	1,46	14,00	4,37	1.378	3,30	615,6
13	F / I 3P	5015413AU	320,19	322,96	323,60	330,89	0,64	1,99	3,41	1,06	10,70	3,34	1.767	3,55	612,1
14	F / I 3P	507810YCU	320,07	322,61	323,18	330,76	0,57	1,76	3,10	0,97	10,69	3,34	1.741	3,54	612,2

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: Items 1; 5; 11 & 12

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)



