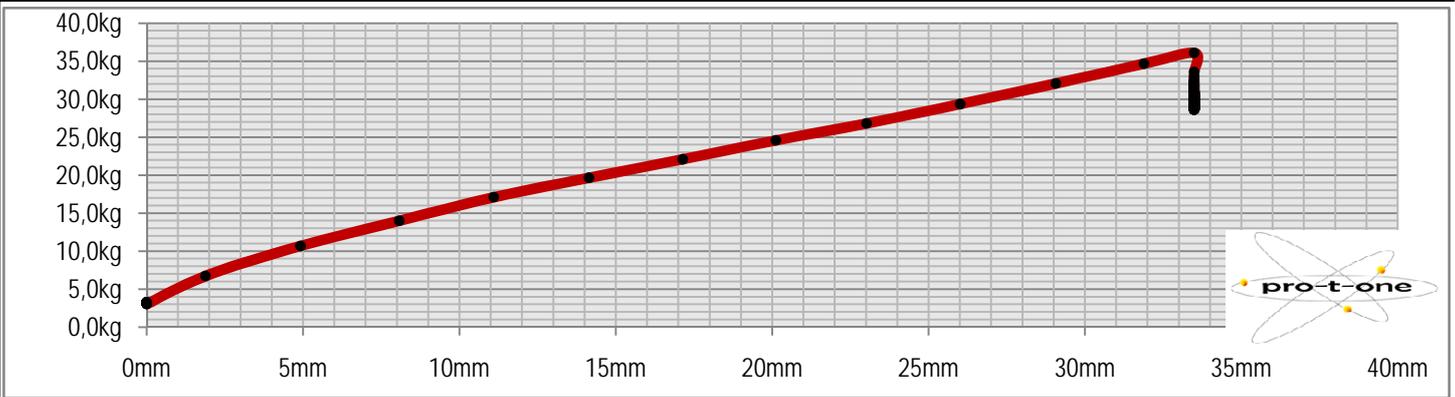
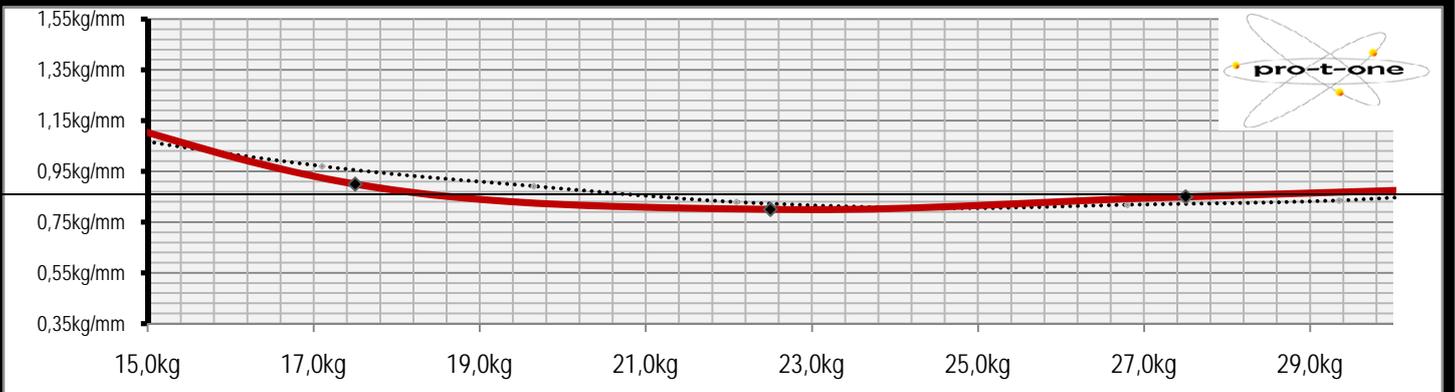


DEFORMATION - LOAD DIAGRAM

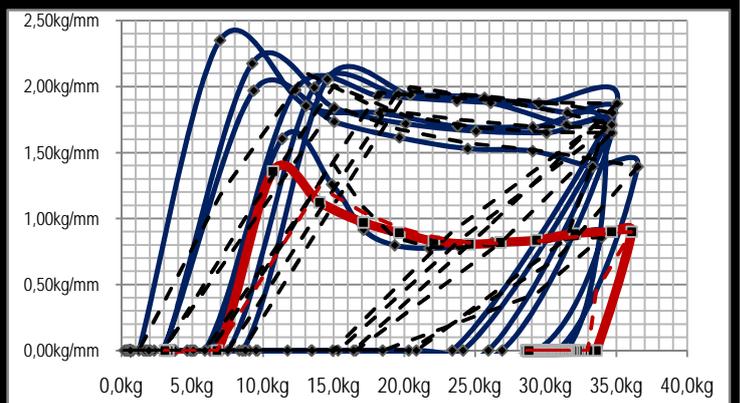
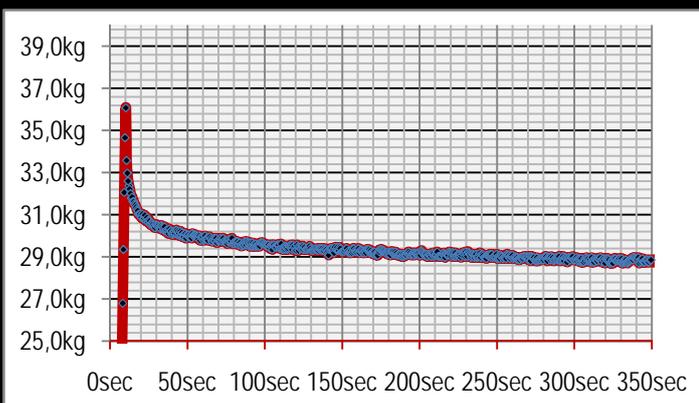


STRINGLAB		1,25 mm		temp 25°C - relative humidity 65%	
AL13 TOUR LB SPIN-HEXA				sample time 700-800ms	
mono				starting length 300mm	
static stiffness 10-15kg	1,35	kg/mm	static stiffness 20-25kg	0,80	kg/mm
static stiffness 15-20kg	0,90	kg/mm	static stiffness 25-30kg	0,85	kg/mm

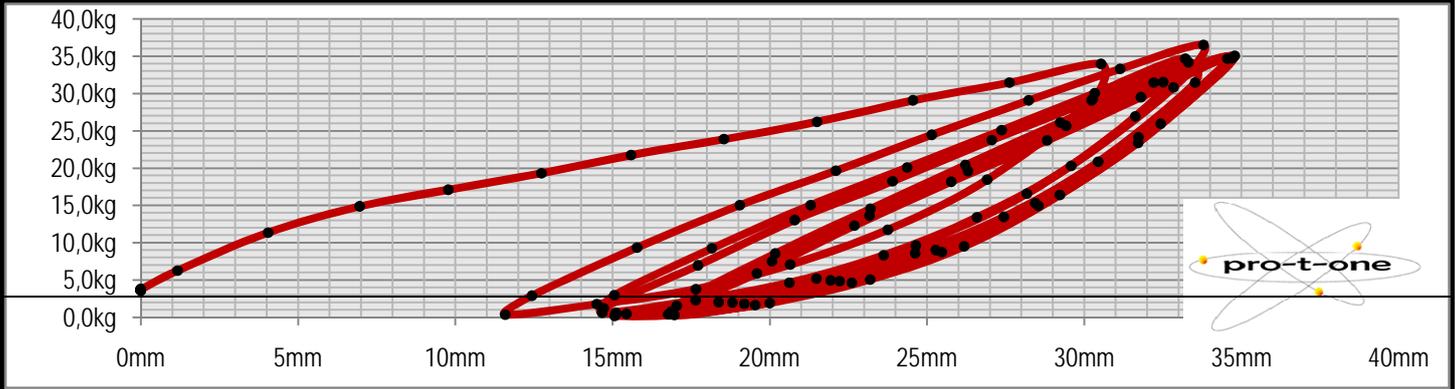
STRING STATIC STIFFNESS MODULUS



TENSION LOSS 12,6% 7,1% 19,7%



HYSTERESIS DIAGRAM - LOAD AND UNLOAD CYCLES



STRINGLAB

AL13 TOUR LB SPIN-HEXA

1,25 mm
mono 0,5

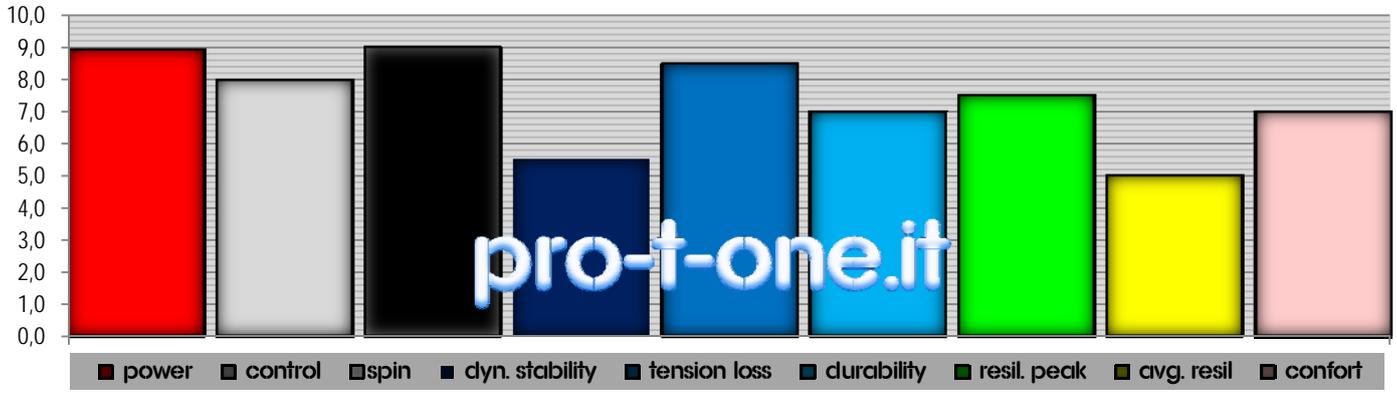
temp 25°C - relative humidity 65%



POWER LEVEL	595pnt	9,0/10	power attitude		97,6kgmm
CONTROL LEVEL	723pnt	8,0/10	control attitude	8	8,5/10 stiffness
SPIN POTENTIAL	2,5	9,0/10			9
DYN. STABILITY LEVEL	456pnt	5,5/10	stability attitude-consistency		-0,5
TENSION LOSS INDEX 300	20%	8,5/10	tension loss after 300" - 5mins		0,5
PLAYING LIFE (tension-resilience)	225%	7,0/10	dyn str life	6 - hrs 12 - hrs	(approx.)
MAX RESILIENCE RANGE	18,0kg	22,0kg	maximum resilience range		
RECOMMENDED TENSION	20,0kg	24,0kg		0	0
FEELING - BALL TOUCH		4,5/10			
RESILIENCE PEAK	17kgmm	7,5/10	12kgmm 18kgmm reactivity:	high	
AVERAGE ELASTICITY	40kgmm	5,0/10	vs gut	6-cycles	0
STRING PLANE STIFFNESS 22,5kg		4,5/10	new		
STRING PLANE STIFFNESS 27,5kg		8,5/10	new		
PRESTRETCH		YES	recommended %	10%	5%
PROGRESSIVE PLASTICIZATION		YES	def. plast.	5,0mm	4,5kg
					20%

STATIC STIFFNESS 10-15kg	super tough	1,35	new	144%	→	1,95	used
STATIC STIFFNESS 15-20kg	medium-tough	0,90	new	206%	→	1,85	used
STATIC STIFFNESS 20-25kg	medium-tough	0,80	new	225%	→	1,80	used
STATIC STIFFNESS 25-30kg	medium-tough	0,85	new	212%	→	1,80	used
STATIC STIFFNESS 30-35kg	medium-tough	0,90	new	189%	→	1,70	used
AVG. STATIC STIFFNESS 15-30	med-tough	0,85	kg/mm	218%		1,85	kg/mm

DYNAMIC STIFFNESS	235	±5 g/mm	sample time 20ms	tension decay
	high	9,0/10	reference tension 20kg	
STRING STIFFNESS EMULATOR	230	±5 lb/inch	string length 325mm - deflection 10mm	
ARM PROT - CONFORT LEVEL	7,0/10	medium	6,5/10 7,4/10	



DEFORMATION --> elastic & plastic	27,7	
RESILIENCE avg. - elastic deformation	4,4	13%
DUCTILITY avg. plastic deformation	13,2	38%
PROGRESSIVE PLASTICIZATION II	5,0	14%

