

# STRING PROJECT

## rocket

1,25 mm  
mono

temp 25°C - relative humidity 65%



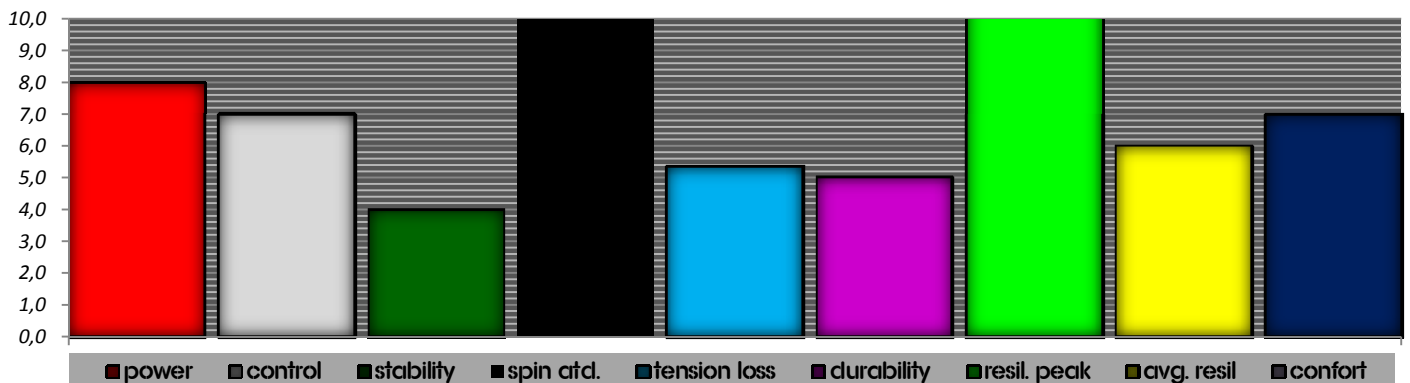
<b>POWER LEVEL</b>	570pnt	8,0/10	power attitude	
<b>CONTROL LEVEL</b>	860pnt	7,0/10	control attitude	7,0/10   stiffness
<b>STABILITY LEVEL</b>	291pnt	4,0/10	stability attitude-consistency	1
<b>SPIN POTENTIAL</b>	1,0	10,0/10		
<b>MAX RESILIENCE RANGE</b>	14kg	18kg	maximum resilience range	
<b>RECOMMENDED TENSION</b>	18kg	24kg		
<b>TENSION LOSS INDEX 300</b>	20%	5,0/10	tension loss after 300" - 5mins	
<b>PLAYING LIFE (tension-resilience)</b>	183%	5,0/10	dyn str life	6 - hrs   8 - hrs (approx.)

<b>RESILIENCE PEAK</b>	105kgmm	10+/10	reactivity level:	high ++
<b>AVERAGE RESILIENCE</b>	180kgmm	6,0/10	vs gut	5-cycles
<b>STRING PLANE STIFFNESS 22,5kg</b>		4,0/10	new	⇨   10+/10   used
<b>STRING PLANE STIFFNESS 27,5kg</b>		5,0/10	new	⇨   10+/10   used

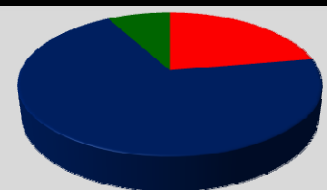
<b>PRESTRECH</b>	YES	recommended %	10%	5%
<b>PROGRESSIVE PLASTICIZATION</b>	YES	def. plast.	5,1mm	5%

	kg/mm		kg/mm				
<b>STATIC STIFFNESS 10-15kg</b>	tough	1,15	new	130%	⇨	1,50	used
<b>STATIC STIFFNESS 15-20kg</b>	medium-tough	0,85	new	159%	⇨	1,35	used
<b>STATIC STIFFNESS 20-25kg</b>	medium	0,70	new	193%	⇨	1,35	used
<b>STATIC STIFFNESS 25-30kg</b>	soft	0,60	new	233%	⇨	1,40	used
<b>STATIC STIFFNESS 30-35kg</b>	soft	0,50	new	270%	⇨	1,35	used
<b>AVG. STATIC STIFFNESS 15-30</b>	medium	0,72	kg/mm				

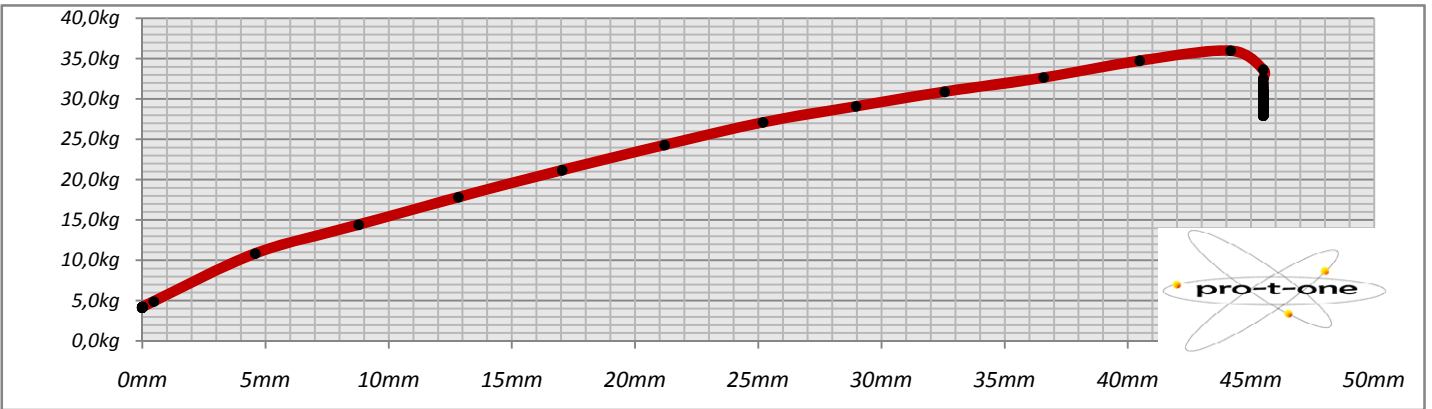
	g/mm				
<b>DYNAMIC STIFFNESS</b>	225	±5 g/mm	sample time 20ms		
	high	8,5/10	reference tension 20kg		
<b>STRING STIFFNESS EMULATOR</b>	200	±5 lb/inch	string length 325mm - deflection 10mm		
<b>ARM PROT - CONFORT LEVEL</b>	7,0/10	medium	6,7/10	8,1/10	



<b>DEFORMATION --&gt; elastic &amp; plastic</b>	30,0	
<b>RESILIENCE avg. - elastic deformation</b>	6,7	22%
<b>DUCTILITY avg. plastic deformation</b>	20,9	70%
<b>PROGRESSIVE PLASTICIZATION II</b>	2,4	8%

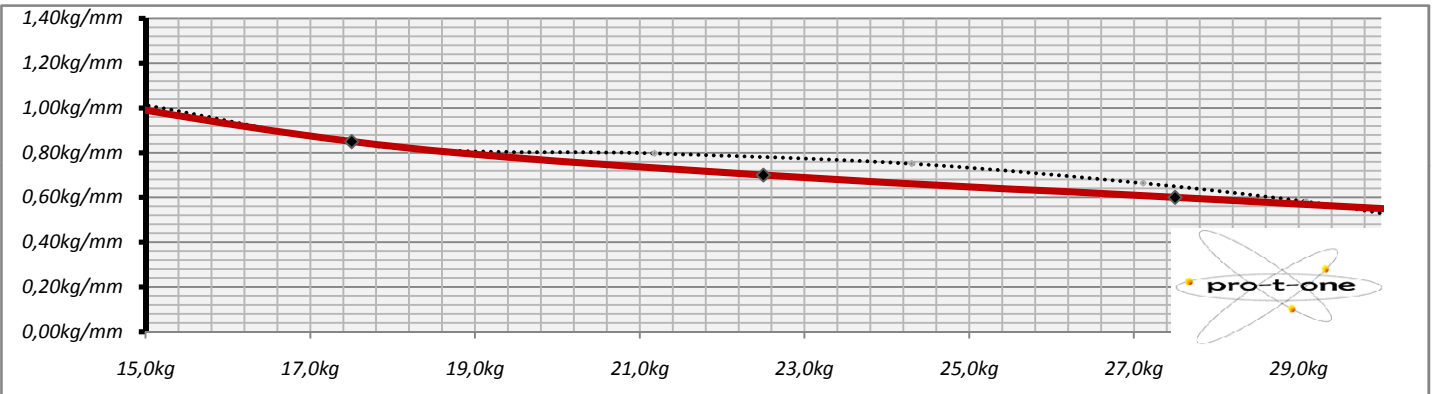


# DEFORMATION - LOAD DIAGRAM

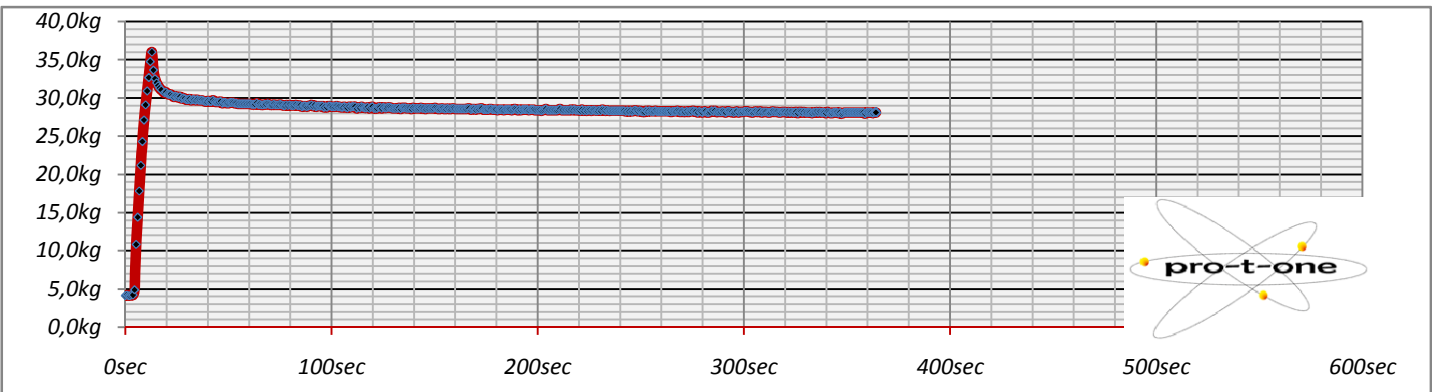


<b>STRING PROJECT</b>	<b>1,25 mm</b>	temp 25°C - relative humidity 65%	
<b>rocket mono</b>		<b>sample time</b>	<b>700-800ms</b>
		<b>starting length</b>	<b>300mm</b>
<b>static stiffness 10-15kg</b>	<b>1,10 kg/mm</b>	<b>static stiffness 20-25kg</b>	<b>0,75 kg/mm</b>
<b>static stiffness 15-20kg</b>	<b>0,80 kg/mm</b>	<b>static stiffness 25-30kg</b>	<b>0,60 kg/mm</b>

# STRING STATIC STIFFNESS MODULUS



# TENSION LOSS DIAGRAM



# HYSTERESIS DIAGRAM - LOAD AND UNLOAD CYCLES

