



**PROTECH LEADED EYEWEAR INC,  
DBA PROTECH MEDICAL**

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## ATTENUATION RESULTS: ULTRALITE LEAD

**TESTING STANDARD:** ASTM 2547-18  
**MATERIAL TESTED:** X-ray Protective Material "Ultralite Lead"  
**SAMPLE TYPE:** 0.25, 0.35, 0.50, 1.0mm Pb (3 samples of every type)  
**EXAMINER:** R. Preis, Dr. H. Eder  
**DATE OF TESTING:** November 27th, 2018  
**REFERENCE NO.:** #0015-18

### ATTENUATION %

AREA WEIGHT SELECTED FROM 3 SAMPLES (+- 3%)	ATTENUATION %					
	TESTING	AL-HVL MM	0.25MM PB	0.35MM PB	0.50MM PB	1.00MM PB
0.25mm - 3.12 kg/m <sup>2</sup> 0.35mm - 4.75 kg/m <sup>2</sup> 0.50mm - 6.08 kg/m <sup>2</sup> 1.00mm - 11.89 kg/m <sup>2</sup>	60kV	2.9mm	96.70%	98.92%	99.67%	nn
	70kV	3.3mm	94.25%	97.56%	99.00%	99.93%
	80kV	4.0mm	91.15%	95.53%	97.79%	99.73%
	90kV	4.3mm	87.89%	93.21%	96.22%	99.34%
	100kV	5.2mm	85.20%	91.29%	94.96%	99.04%
	110kV	5.5mm	82.92%	89.59%	93.86%	98.77%
	120kV	6.3mm	80.72%	87.92%	92.67%	98.44%
	130kV	6.7mm	78.68%	86.24%	91.43%	98.02%

The undersigned, being a high level representative of Protech, hereby states that the above x-ray protective materials were taken as a random sampling from Protech's inventory and tested in accordance with industry standard ASTM testing methods.

Signature

President

Title

01/30/19

Date