

January 7, 2022

Sarah Precise President of Operations Trivitron Imaging Solutions DBA: Kennedy Vinyl 11665 Alabama Highway 79 Scottsboro, Alabama 35768

Dear Sarah:

Enclosed are the attenuation and lead equivalency results for the samples that were recently submitted to Health Physics Northwest. At your request, all tests were conducted in accordance with ASTM test Method F2547–18. The documentation on the following pages contains all of the information regarding this testing.

If you have any questions, please contact our office.

Sincerely,

Matt Brien, BS Medical Physicist

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Encl.

ASTM test Method F2547 - 18 14.2.1 Test Information

Date of Testing
Place of Testing
Name of Individual Performing the Testing
Manufacturer / Model of X-ray Generator
Manufacturer / Model of X-ray Tube

January 4, 2022
Health Physics Northwest
Matt Brien, BS Health Physics Northwest
Del Medical / VZW2556RB3-A3
Varex Imaging Corporation / A-192

Set kVp
Measured kVp

mAs
Half-Value Layer (mm Al)

Testing Parameters				
89	99			
90.0	99.9			
64	40			
4.3	5.2			

All exposure and kVp measurements performed with an Unfors RaySafe X2 R/F sensor, Serial No.: 208271 calibrated February 5, 2021.



ASTM test Method F2547-18 14.2.2 Sample Identification

Sample Designation Product Weight/Target Gauge Manufacture Date	1 VLW-250-1 ply 29.14 30.5 12/22/21
Sample Designation Product Weight/Target Gauge Manufacture Date	2 VLW-250-2 ply 28.97-29.00 30.5, 30.5 12/22/21
Sample Designation Product Weight/Target Gauge Manufacture Date	3 VLW-250-1 ply 29.52 31.5 12/22/21
Sample Designation Product Weight/Target Gauge Manufacture Date	4 VLW-250-2 ply 29.44-29.54 31-31 12/22/21
Sample Designation Product Weight/Target Gauge Manufacture Date	5 NL-250-2 ply 28.02-28.03 31-31 12/8/20



ASTM test Method F2547-18 14.2.3 Test Results

		Attenuation	
Sample	Layers	90 kVp	100 kVp
1	1	88.2%	84.3%
2	2	96.3%	94.5%
3	1	88.8%	84.8%
4	2	96.4%	94.7%
5	2	97.5%	95.8%

		Lead Equivalency (mm Pb)	
Sample	Layers	90 kVp	100 kVp
1	1	0.23	0.23
2	2	0.47	0.47
3	1	0.24	0.24
4	2	0.48	0.48
5	2	0.57	0.54

