



TECHNICAL NOTE

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MARKETS

SUBJECT: Densities and Characteristics of Materials used in Standard Imaging Products

The following information is provided as a service to our users and customers:

The table below lists many of the materials used in Standard Imaging products such as Exradin Ion Chambers and the Lucy 3D QA Phantom. Please note that densities are nominal, theoretical values.

Material	Equivalency	Physical Density [g/cm ³]	Relative Electron Density to Water	Color of Material
A150 - Exradin Shonka Conductive Plastic	Tissue	1.11	1.10	Black
B100 - Exradin Shonka Conductive Plastic	Bone	1.42	1.07	Black
C552 - Exradin Shonka Conductive Plastic	Air	1.76	1.60	Black
D400 - Exradin Shonka Conductive Plastic	Polystyrene	1.16	1.13	Black
Blue Water - Standard Imaging Plastic	Water	1.09	1.05	Bright blue
Med-Cal Virtual Water™ Plastic ¹	Water	1.03	1.01	Reddish brown
IMRT Phantom Lung Foam Insert ¹	Lung	0.28	0.26	Yellowish gray
Delrin ¹	n/a	1.43	1.37	White or black
Acrylic (PMMA) ¹	n/a	1.19	1.16	Clear
CIRS Cortical Bone ¹	Cortical Bone	1.91	1.78	Warm light gray
CIRS Trabecular Bone ¹	Trabecular Bone	1.20	1.16	Warm gray
CIRS Adipose Fat ¹	Adipose Fat	0.94	0.93	Muted pink

¹ These are not Standard Imaging manufactured or controlled materials.

The parameters listed are subject to change without notice.

Virtual Water™ is a trademark of Med-Cal.