

Ecomass Compound

1050ZB92 Nat

Shielding Test Results

A new compound, **Ecomass Compound 1050ZB92 Nat**, has been developed for radiation shielding applications. Results of shielding tests performed at the University of Texas at Austin indicate the new compound has a shielding effectiveness comparable to lead. This is unique given that this level of shielding is accomplished with a material density of only 6.9 g/cc or 62.5% that of lead. Additionally, parts produced with Ecomass Compound 1050ZB92 Nat will be less expensive than previous formulations due to the substantial reduction in part weight.

Shielding Results

Isotope / Source	Major Radiation Energy	Shielding Effectiveness (compared to lead)
I-125	35.5 keV gamma	100%
Tl-201	71 keV gamma	100%
Xe-133	81 keV gamma	100%
Tc-99m	152 keV gamma	100%
Co-60	1173 keV gamma	88%
	1332 keV gamma	95%
X-ray	125 keV (10 milli-amp-sec)	92%

Ecomass Compounds are a patented line of nontoxic, high-density, composite materials.

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