



ECOMASS[®] COMPOUNDS

Nontoxic Shielding Solutions

Thermo Fisher Scientific, producer of portable alloy analysis tools, has selected Ecomass Compounds for shielding in the accessories of its Thermo Scientific NITON[®] Analyzer line of handheld X-ray fluorescence (XRF) analyzers. These instruments can verify the composition of incoming materials, provide nondestructive alloy grade identification, assist with quality assurance of finished goods, and can classify scrap for rework or resale.

Ecomass Compound 1050ZB92 was chosen for two shielding applications in this product line because of its ability to shield x-ray and gamma radiation without the use of toxic substances such as lead.

"We faced a serious design challenge of meeting the regulations for radiation safety and banned materials for all the countries we export to," said Thermo Fisher engineer Paul Estabrooks. "Ecomass enabled us to employ an eco-friendly material in our shielding to comply with the requirements of all the markets we serve. Since the material lends itself to injection molding, we were able to minimize weight - essential for our handheld instruments."

Ecomass Compounds are thermoplastic composite materials that can be injection molded, compression molded, or extruded into sheet for a variety of shielding applications. These materials do not contain lead, lead compounds, or any other materials consider hazardous or toxic by U.S. EPA. More information, including radiation shielding test results, can be found at www.ecomass.com.

Thermo Scientific NITON XL3



Photo courtesy of Thermo Fisher Scientific.