

Brandonite® 4910-90D HD

Product Description

Brandonite® 4910-90D HD is a high-density non-toxic epoxy-based lead replacement composite having outstanding sound deadening, and radiation-shielding characteristics. It also offers a balance of excellent mechanical, thermal and electrical properties.

Applications

Brandonite® 4910-90D HD is well suited for numerous special applications. Typical applications include a variety of components in defense, power generation, medical equipment, and other industries where radiation-shielding is necessary. It has wide service temperatures of -60°C to 150°C.

Brandonite® 4910-90D HD is specially formulated to provide the following physical, mechanical, and electrical properties:

PROPERTIES	TEST METHOD	UNIT OF MEASURE	RESULT
Specific Gravity	ASTM D 792	sp gr 23/23°C	4.500
Shore Hardness	ASTM D 2240	D Scale	90
Tensile Strength	ASTM D 412	psi	8,000
Compression Strength	ASTM D 695	psi	13,000
Mold Shrinkage	ASTM D 955	in./in.	0.004
Coefficient of Linear Thermal Expansion	ISO 11359-1,-2	in/in/°Cx10 ⁻⁶	< 40
Volume Resistivity	ASTM D 257	ohm-Cm	10 ¹⁵
Dielectric Strength	ASTM D 147	volt/mil	450

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Rev. 06/07