

Brandonite® 4910-90D

Product Description

Brandonite® 4910-90D is a 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 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 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	3.500
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

Brandonite® is a registered trademark of Globe Composite Solutions, Ltd. (“GCS”). GCS makes no representation on the use of Brandonite® materials. The recommendations and specifications contained herein are based on results believed to be accurate and reliable. However, GCS does not warrant or imply any guarantee that the results are reproducible by others under the same or different conditions. GCS makes no express or implied warranty concerning the suitability of this product for other applications. It is the responsibility of the users to determine that this product is suitable for the intended use.

Rev. 06/07