

Brandonite® 4910-90D

Product Description

Brandonite® 4910-90D is an epoxy-based, lead-filled composite with a high specific gravity. The Brandonite® 4910 series of materials offers a balance of excellent mechanical, thermal and electrical properties and has a broad service temperature range of -60°C to 150°C.

Applications

Brandonite® 4910-90D is fully castable which allows engineers and product managers greater design and manufacturing flexibility. It is ideally suited for industries where radiation-shielding, radiation-channeling or sound deadening is necessary, such as medical diagnostic and imaging equipment, power generation, security and defense related applications. Brandonite® 4910-90D provides the following physical, mechanical, and electrical properties:

PROPERTIES	TEST METHOD	UNIT OF MEASURE	RESULT
General			
Specific Gravity	ASTM D 792	sp gr 23/23°C	2.90
Shore Hardness	ASTM D 2240	D Scale	87D
Mechanical			
Notched Izod Impact Strength	ASTM D 256	Ft-lb/in	0.52
Tensile Strength	ASTM D 638	psi	5,370
Elongation	ASTM D 638	%	1.0
Flexural Strength	ASTM D 790	psi	8,510
Flexural Modulus	ASTM D 790	kpsi	541
Electrical			
Volume Resistivity	ASTM D 257	Ohm-cm	1.0E15
Dielectric Constant	ASTM D 150-98	N/A	4.91
Dissipation Factor	ASTM D 150-98	N/A	0.01
Dielectric Strength	ASTM D 149-97a	V/mil	299
Thermal			
Thermal Conductivity	ASTM E-1530 & ASTM C-518	W/m/k	0.3934

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