

Brandonite[®] 4210-d35

(US Patents Pending)

Product Description

Brandonite[®] 4210-d35 is an environmentally-friendly, non-toxic epoxy-based composite with a high specific gravity. The Brandonite[®] 4210 series of materials is available in a wide variety of colors and can be modified to yield varying densities and durometers. This material offers a balance of excellent mechanical, thermal and electrical properties and has a broad service temperature range of -60°C to 150°C. Brandonite[®] 4210 is 100% lead-free, so parts can be safely manufactured, transported and disposed without special permitting or safety precautions.

Applications

Brandonite[®] 4210-d35 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, subsea, marine, security and defense related applications. Brandonite[®] 4210-d35 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	3.500
Shore Hardness	ASTM D 2240	D Scale	94D
Mechanical			
Notched Izod Impact Strength	ASTM D 256	Ft-lb/in	0.54
Tensile Strength	ASTM D 638	psi	6,300
Elongation	ASTM D 638	%	0.5
Flexural Strength	ASTM D 790	psi	13,400
Flexural Modulus	ASTM D 790	kpsi	929
Electrical			
Volume Resistivity	ASTM D 257	Ohm-cm	6.45E15
Dielectric Constant	ASTM D 150-98	N/A	11.5
Dissipation Factor	ASTM D 150-98	N/A	0.014
Dielectric Strength	ASTM D 149-97a	V/mil	42
Thermal			
Thermal Conductivity	ASTM E-1530 & ASTM C-518	W/m/k	0.658

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