

Ferro IX 2683 Passivation Glasses - High Voltage (Zn-B-Silicates)

Category : Ceramic , Glass , Oxide , Silicon Oxide

Material Notes:

Typical Powder Form: DSD Zinc-Boro-Silicate passivation glasses are used for hermetic passivation of high voltage diodes, thyristors, and transistors. They provide high junction temperatures and can be applied to wafers using thick film and electrophoresis methods. These products are formulated and produced to achieve low alkali and iron levels. These glasses are also used for encapsulation of rectifiers using glass beading application methods. Information provided by Ferro Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ferro-IX-2683-Passivation-Glasses-High-Voltage-Zn-B-Silicates.php

Physical Properties	Metric	English	Comments
Density	3.81 g/cc	0.138 lb/in ³	
Particle Size	13 Åµm	13 Åµm	50% of particles
	<= 105 Åµm	<= 105 Åµm	

Thermal Properties	Metric	English	Comments
CTE, linear	4.50 Åµm/m-Å°C	2.50 Åµin/in-Å°F	at Set Pt.
	4.50 Åµm/m-Å°C	2.50 Åµin/in-Å°F	
	@Temperature 260 Å°C	@Temperature 500 Å°F	
Softening Point	625 Å°C	1160 Å°F	
Transformation Temperature	540 Å°C	1000 Å°F	

Chemical Properties	Metric	English	Comments
Ionic Impurities - Na (Sodium)	<= 20 ppm	<= 20 ppm	
Ionic Impurities - K (Potassium)	<= 10 ppm	<= 10 ppm	

Processing Properties	Metric	English	Comments
Processing Temperature	<= 175 Å°C	<= 347 Å°F	Maximum Junction Temperature
	690 Å°C	1270 Å°F	Typical Firing Temperature; Typical Firing Time: 5-10 min.

Descriptive Properties	Value	Comments
Ionic Impurities - Li (Lithium) ppm, Max	10	

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