

Ferro IX 2443 Passivation Glasses - High Voltage (Zn-B-Silicates)

Category : Ceramic , Glass , Oxide , Silicon Oxide

Material Notes:

Typical Powder Form: RWG, 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. IX 2443 is a crystallizing glass that when fired, closely matches the expansion of silicon for use on stacked-chip diodes for high voltage devices. Information provided by Ferro Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ferro-IX-2443-Passivation-Glasses-High-Voltage-Zn-B-Silicates.php

Physical Properties	Metric	English	Comments
Density	3.96 g/cc	0.143 lb/in ³	
Particle Size	4.0 Åµm	4.0 Åµm	50% of particles, (RWG Powder)
	13 Åµm	13 Åµm	50% of particles, (DSD Powder)
	<= 25 Åµm	<= 25 Åµm	RWG Powder
	<= 105 Åµm	<= 105 Åµm	DSD Powder

Thermal Properties	Metric	English	Comments
CTE, linear	3.30 Åµm/m-Å°C	1.83 Åµin/in-Å°F	at Set Pt.; Crystallized
	4.50 Åµm/m-Å°C @Temperature 260 Å°C	2.50 Åµin/in-Å°F @Temperature 500 Å°F	
Crystallization Temperature	700 Å°C	1290 Å°F	
Softening Point	618 Å°C	1140 Å°F	
Transformation Temperature	530 Å°C	986 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
	700 Å°C	1290 Å°F	Typical Firing Temperature; Typical Firing Time: 10-15 min.

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

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