

Ferro IX 2730 Passivation Glasses - High Voltage (Zn-B-Silicates)

Category : Ceramic , Glass , Oxide , Silicon Oxide

Material Notes:

Typical Powder Form: TF 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 2730 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-2730-Passivation-Glasses-High-Voltage-Zn-B-Silicates.php

Physical Properties	Metric	English	Comments
Density	3.90 g/cc	0.141 lb/in ³	
Particle Size	10 Åµm	10 Åµm	50% of particles
	<= 75 Åµm	<= 75 Åµm	

Thermal Properties	Metric	English	Comments
CTE, linear	3.70 Åµm/m-Å°C	2.06 Åµin/in-Å°F	at Set Pt.; Crystallized
	4.40 Åµm/m-Å°C	2.44 Åµin/in-Å°F	
	@Temperature 260 Å°C	@Temperature 500 Å°F	
Crystallization Temperature	715 Å°C	1320 Å°F	
Softening Point	615 Å°C	1140 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
	720 Å°C	1330 Å°F	Typical Firing Temperature; Typical Firing Time: 10-15 min.

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

10
Value

Comments

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