

Ferro IP 745 Passivation Glasses (Pb-B-Si-Al; Pb-Si-Al; Si-Pb-Al Silicates)

Category : Ceramic , Glass , Oxide , Silicon Oxide

Material Notes:

Glass Type: Pb-B-Si-Al Typical Powder Form: TF, REG, RWG, SRRG Ferro's passivation glasses are designed for use on transistors, thyristors, and diodes. These products are formulated and produced to achieve very low alkali and iron levels and can be applied by a variety of techniques including photo-spin, spin coat, doctor blading, sedimentation, screen printing, and electrophoresis. IP 745 is primarily used for low-voltage rectifiers using glass bead diode application methods. Information provided by Ferro Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ferro-IP-745-Passivation-Glasses-Pb-B-Si-Al-Pb-Si-Al-Si-Pb-Al-Silicates.php

Physical Properties	Metric	English	Comments
Density	3.45 g/cc	0.125 lb/in ³	
Particle Size	1.5 Åµm	1.5 Åµm	50% of particles, (SRRG Powder)
	3.0 Åµm	3.0 Åµm	50% of particles, (RWG Powder)
	7.0 Åµm	7.0 Åµm	50% of particles, (REG Powder)
	9.0 Åµm	9.0 Åµm	50% of particles, (TF Powder)
	<= 10 Åµm	<= 10 Åµm	SRRG Powder
	<= 25 Åµm	<= 25 Åµm	RWG Powder
	<= 75 Åµm	<= 75 Åµm	REG Powder
	<= 75 Åµm	<= 75 Åµm	TF Powder

Thermal Properties	Metric	English	Comments
CTE, linear	4.80 Åµm/m-Å°C	2.67 Åµin/in-Å°F	
	@Temperature 25.0 - 260 Å°C	@Temperature 77.0 - 500 Å°F	
Softening Point	630 Å°C	1170 Å°F	
Transformation Temperature	465 Å°C	869 Å°F	

Chemical Properties	Metric	English	Comments
Ionic Impurities - Na (Sodium)	<= 30 ppm	<= 30 ppm	TF, REG Powders
	<= 50 ppm	<= 50 ppm	RWG, SRRG Powders
Ionic Impurities - K (Potassium)	<= 10 ppm	<= 10 ppm	TF, REG Powders
	<= 30 ppm	<= 30 ppm	RWG, SRRG Powders

Chemical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	<= 190 Â°C	<= 374 Â°F	Maximum Junction Temperature
	690 Â°C	1270 Â°F	Typical Firing Temperature; Typical Firing Time: 10-15 min. at Peak

Descriptive Properties	Value	Comments
Ionic Impurities - Li (Lithium) ppm, Max	10	RWG, SRRG Powders
	10	TF, REG Powders

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