

SG-720

Dielectric / Glaze

Description

SG-720 is Pb and Cd free low fire sealing glass designed to seal alumina substrates. It has a black translucent appearance after firing. SG-720 has been engineered to provide dimensional stability during sealing

Key Features

- Thermal expansion matched to Al2O3 Low shrinkage upon firing Dyed paste for easy visual inspection Provides strong dense seal

Typical Properties

Viscosity	80 – 120 kcps, Brookfield HBT, SC4-14 spindle & 6R utility cup @ 10 rpm, 25°C
Solids	80.0 ± 2.0%
Blendable	
Coverage	
Color	
Resistivity	
Laser Trim	
Rel. Dielectric Constant	
Dissipation Factor	
Insulation Resistance	
Breakdown Voltage	
Via resolution	

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Typical Properties (continued)	
Thermal Coefficient of Expansion (CTE)	75 – 85 x 10-7 ppm/°C
Solderability	
Recommended Processing Guide	
Printing Parameters	165 mesh 0.5 mil emulsion
Printing Speed	
Leveling	
Drying Temperature	150 °C for 10 minutes
Process Temperature (TDS)	540C (2 - 3 min. at peak) pre-glaze temperature for part 1 and part 2 620C (4 - 6 min. at peak) sealing temperature
Film Thickness	18 - 22 µm
Recommended Thinner	
Paste Compatibility	

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Warranty

Material guaranteed to meet specifications for 6 months from date of manufacturing with proper storage.

Storage

Store in a dry location at 5 – 25°C. DO NOT REFRIGERATE. Allow paste to come to room temperature prior to opening. Spatulate well before using, as settling may occur during storage.

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