



## SSS Ground Glass Powder

### Filler Additive



## TECHNICAL DATA SHEET

### PRODUCT DESCRIPTION

SSS Ground Glass Powder is made from 100% recycled glass occurring in laminated glass (primarily automotive windshields). The product is gray colored powder with a uniform particle size distribution. SSS Ground Glass Powder is amorphous and contains no crystalline silica and provides a clean post-consumer filler for polymer-based systems. This filler impart excellent abrasion resistance and chemical stability to coatings and other polymer systems. SSS Ground Glass Powder processing system provides consistent product quality with fineness covering a range of potential applications. Product is screened and shows average size particles of Mesh 325.

### CHEMICAL COMPOSITION

#### Typical Measurements and Span

SiO<sub>2</sub> 72%, Range: 70 – 80%

Al<sub>2</sub>O<sub>3</sub> 1%, Range: 0.05 – 1.5%

Na<sub>2</sub>O 13%, Range: 4 – 15%

K<sub>2</sub>O 3%, Range: 0.5 – 5%

MgO 4%, Range: 0.5 – 6%

CaO 5%, Range: 4 – 8%

B<sub>2</sub>O<sub>3</sub> 1%, Range: 0.8 – 2.0%

These oxides are found combined in an amorphous (non-crystalline) state in a typical silicate glass being a super cooled liquid with no repeating chemical structure.

Pb, Sn & As Below Detection Limit. Undetected in chemical analysis and in physical flame emission spectroscopic analysis. Other heavy elements or toxins not present.

### TYPICAL PHYSICAL PROPERTIES

Specific Gravity: 2.5 g/cm<sup>3</sup>

Bulk Density: 975 kg/m<sup>3</sup>

Passing 325 mesh: 90 – 95%

D98 top size: 50 microns

D50 median size: 9 – 12 microns

pH: 8.3 initial in water  
pH after 24 hours @ 20°C: 7.4  
Hardness: Mohs 5.5  
Refractive Index: 1.56  
Free Moisture: 0.04%

### PARTICAL SIZE (RESULT SOURCE AVERAGED)

Particle Name: Polystyrene latex  
Accessory Name: Hydro 2000S (A)  
Analysis Model: General purpose  
Sensitivity: Normal  
Particle RI: 1.590  
Absorption: 0  
Size Range: 0.020 – 2000 um  
Obscuration: 7.45%  
Dispersant Name: Water  
Dispersant RI: 1.330  
Weighted Residual: 3.589%  
Result Emulation: Off  
Concentration: 0.0106% Vol  
Span: 2.488  
Uniformity: 0.773  
Result Units: Volume  
Specific Surface Area: 0.535 m<sup>2</sup>/g  
Surface Weighted Mean D[3,2]: 10.684 um  
Vol. Weighted mean D[4,3]: 22.317um

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