



## LA Glass Powders in Paints/Coatings

LA Glass Powders are white post-industrial glass powders made from by-product reinforcement fiberglass. The powders are free of crystalline silica and organic contaminants, and have quite low oil absorptions. Table I is a brief summary of properties of the grades of LA Glass.

	Grade LA300	Grade LA400	Grade LA-7
Specific Gravity	2.6	2.6	2.6
Bulk Density, lb/ft <sup>3</sup>	50	45	45
% passing 325 mesh	99	99.9	99.9
Hegman value	3	4	2
Surface area, m <sup>2</sup> /g	1.2	2.1	2.1
Oil absorption	22	22	23
pH	9.4	9.4	9.4
Hardness – Mohs	5.5	5.5	5.5
Refractive Index	1.56	1.56	1.56
Free moisture, %	0.2	0.3	0.3
Brightness	80	81	86
L	90.5	91.5	94.3
A	-0.23	-0.13	-0.22
b	1.5	1.3	2.2
Specific Resistance	3500 ohm-cm	3500 ohm-cm	3500 ohm-cm

Table I

### Application Data

LA Glass has been tested in a number of exterior architectural coatings as well as cementitious and/or epoxy floor coatings, compared to nephylene seyenite (NS), crystalline silica, and pumice. Significant advantages of LA Glass include negligible frosting when compared to NS; no crystalline silica, and LA Glass is a recycled additive offering LEED points. LA Glass has Tappi brightness in the 81-85 range with an L value of 91-94. The oil absorption is slightly lower than NS.



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LA Glass Powders contain 95% less soluble alkali salts than does NS. And since soluble alkali salts leached out of the coating film and are deposited on the film surface to react with acid rain and form sulfates (known as frosting), it is not surprising that LA Glass Powders out perform NS. This reduction in frosting is often seen as improved tint or color retention.

LA Glass also undergoes a pozzolanic reaction if used in cementitious substrates or coatings which reduces efflorescence and densifies any cement-based product. Data on pozzolanic reactions can be found on the website [www.vitrominerals.com](http://www.vitrominerals.com).

LA Glass products are inert and will not dissolve in water or react with solvents, organic chemicals, acids or alkalis.

Flow and leveling are better than NS, and after 500 hours in QUV, the tint/gloss retention of LA Glass is comparable to NS. The LA Glass products offered superior durability and cracking resistance in a stucco patch test over Hardy Board. Dry burnish resistance was comparable to the other mined minerals.

LA Glass has been in the long-term exposure tests for over 2 years without adverse results. More information can be found on LA Glass at [www.glassfillers.com](http://www.glassfillers.com). The product is manufactured in plants in Tennessee and South Carolina, and is available in 50-pound bags and supersacks.

Recycled glass for  
polymer systems  
[www.glassfillers.com](http://www.glassfillers.com)

Recycled glass for  
cementitious systems  
[www.vitrominerals.com](http://www.vitrominerals.com)

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**Health Hazard Warning:** Prolonged inhalation of dust associated with the materials described in this data sheet can cause delayed lung injury. Avoid creating dust when handling, using or storing. Follow OSHA Safety and Health Standards for fugitive dust. Current Material Safety Data Sheet containing safety information is available and should be consulted before usage.

**Vitro Minerals**

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