

# Onyx Elite<sup>®</sup> 111

## Alumina Trihydrate

### DESCRIPTION

Onyx Elite<sup>®</sup> 111 is a specially designed alumina trihydrate for use in the manufacture of solid surface cast polymers. The high purity of this product provides excellent translucency, depth of pattern and soft white color that are so important to the cast polymer producer. The processing and physical properties of Onyx Elite 111 are exceptional, providing low matrix viscosity, excellent air release, reduced matrix settling and a very homogenous casting.

### TYPICAL CHEMICAL ANALYSIS

Al(OH) <sub>3</sub> , %	99.6
SiO <sub>2</sub> , %	0.02
Fe <sub>2</sub> O <sub>3</sub> , %	0.008
Na <sub>2</sub> O (total), %	0.2
Na <sub>2</sub> O (soluble), %	0.02
Loss on ignition (550°C), %	34.6
Free Moisture (105°C), %	0.1

### TYPICAL PHYSICAL PROPERTIES

Screen Analysis	
% at 10 microns	18
% on 325 mesh	62
% through 325 mesh	38
Median Particle Diameter, microns	57
Surface Area (m <sup>2</sup> /gm)*	0.6
Specific Gravity (gm/cm <sup>3</sup> )	2.42
Bulk Density – loose (lbs/ft <sup>3</sup> )	1.6
Bulk Density – packed (gm/cm <sup>3</sup> )	1.6
Color – L*	88

\* Measured via Datacolor SF Plus, wet method

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