

# Onyx Elite<sup>®</sup> 339

## Alumina Trihydrate

### DESCRIPTION

Onyx Elite<sup>®</sup> 339 is a high-purity, organic free Alumina Trihydrate designed to provide the translucency, depth of pattern and soft white color that are so important to the cast polymer industry. The product is designed to have a unique particle size distribution that provides an optimal combination of viscosity and air release for cast polymer processing. Control of the coarse fraction top size with a large fine fraction affords rapid dispersion in resin, excellent mold flow and wet-out characteristics that result in minimal porosity, uniformity of pigmentation and excellent reinforcement throughout the fabricated part. Onyx Elite<sup>®</sup> 339 is a color controlled, high purity, low surface area, medium particle size flame retardant and smoke suppressant material.

### TYPICAL ANALYSIS

Al(OH) <sub>3</sub> , %	99.6
SiO <sub>2</sub> , %	0.008
Fe <sub>2</sub> O <sub>3</sub> , %	0.004
Na <sub>2</sub> O (total), %	0.2
Na <sub>2</sub> O (soluble), %	0.045
Loss on ignition (550°C), %	34.6
Free Moisture (105°C), %	0.2

### TYPICAL PHYSICAL PROPERTIES

Screen Analysis	
% on 325 mesh	24
% through 325 mesh	75
Median particle diameter, microns	16
Surface Area, (m <sup>2</sup> /g)*	1.3
Specific Gravity (gm/cm <sup>3</sup> )	2.42
Bulk Density, loose (gm/cm <sup>3</sup> )	0.85
Bulk Density, packed (gm/cm <sup>3</sup> )	1.35
Color-L	90

\*As measured with a Quantachrome monosorb surface area analyzer (BET)