

Onyx Elite[®] 100

Alumina Trihydrate

DESCRIPTION

Onyx Elite 100 is a high-purity, high brightness Alumina Trihydrate specifically designed to provide the translucency, depth of pattern and soft white color that are so important to the cast polymer industry. It has a unique particle size distribution that provides the best combination of viscosity, and air release for cast polymer applications. A closely controlled coarse fraction top size with a large fine fraction yields rapid dispersion in resin, excellent mold flow and wet-out characteristics, resulting in minimal porosity, even pigmentation, and excellent filler reinforcement throughout the molded part. Onyx Elite 100 Alumina Trihydrate is color controlled high purity, low surface area, medium particle-size flame retardant and smoke suppressant Alumina.

TYPICAL CHEMICAL ANALYSIS

Al(OH) ₃ , %	99.6
SiO ₂ , %	0.008
Fe ₂ O ₃ , %	0.004
Na ₂ O (total), %	0.2
Na ₂ O (soluble), %	0.015
Loss on ignition (550°C), %	34.6
Free Moisture (105°C), %	0.10

TYPICAL PHYSICAL PROPERTIES

Screen Analysis	
% on 100 mesh	0-10
% on 200 mesh	65
% on 325 mesh	85
% through 325 mesh	10
% less than 10 microns	5
Median Particle Diameter, microns	90
Surface Area (m ² /gm)*	.75
Specific Gravity (gm/cm ³)	2.42
Bulk Density – loose (gm/cm ³)	1.2
Bulk Density – packed (gm/cm ³)	1.5
Color – L*	86

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