

Onyx Elite® 431

Alumina Trihydrate

DESCRIPTION

Onyx Elite® 431 initiates a new standard for alumina trihydrate fillers. Onyx Elite® 431 is a color controlled high-purity, organic-free Alumina Trihydrate specifically designed to provide the translucency, depth of pattern and soft white color that are so important to the cast polymer industry.

Onyx Elite 431 is a high brightness product exhibiting a unique particle size distribution that provides the best combination of viscosity and air release for cast polymer. 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 431 is a low surface area, medium particle size flame retardant and smoke suppressant Alumina. A complete range of surface modifications is available to aid in processing and enhance physical properties.

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), %	0.02
Loss on ignition (550°C), %	34.6
Free Moisture (105°C), %	0.3

TYPICAL PHYSICAL PROPERTIES

Screen Analysis	
% on 100 mesh	0
% on 200 mesh	0.01
% on 325 mesh	1.0
% through 325 mesh	99
% less than 10 microns	63
Median Particle Diameter, microns	8
Surface Area (m ² /gm)*	2.0
Specific Gravity (gm/cm ³)	2.42
Bulk Density – loose (lbs/ft ³)	0.78
Bulk Density – packed (gm/cm ³)	1.35
Color-L	90

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

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