

Onyx Elite® 103

Alumina Trihydrate

DESCRIPTION

Onyx Elite® 103 is a high purity, organic free alumina trihydrate specifically designed to provide translucency, depth of pattern and soft white color polymer products. OE 103 is a high brightness alumina trihydrate featuring a unique particle size distribution which yields low resin demand and excellent air release 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), %	0.10

TYPICAL PHYSICAL PROPERTIES

Screen Analysis	
% on 200 mesh	56
% on 325 mesh	80
% through 325 mesh	22
% less than 10 microns	11
Median Particle Diameter, microns	85
Surface Area (m ² /gm)*	0.32
Specific Gravity (gm/cm ³)	2.42
Bulk Density – loose (gm/cm ³)	1.16
Bulk Density – packed (gm/cm ³)	1.5
Color-L*	86

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

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