

## BURGESS KE

### SURFACE MODIFIED CALCINED ALUMINUM SILICATE

BURGESS KE is a uniquely processed silane modified anhydrous aluminum silicate designed for use in EPR, EPT, crosslinked polyethylene and polyester systems.

BURGESS KE is a very pure, high brightness, low residue, calcined kaolin with a surface that has been chemically transformed by the carefully controlled reaction of an organofunctional silane. This surface conversion permits direct reaction with compatible polymer matrixes in the presence of a peroxide yielding excellent dispersion with minimum work required. The evidence of clay/silane/polymer interaction is demonstrated by increased physical properties such as tensile strength and compression set. KE exhibits excellent wet and dry, initial and long-term electrical characteristics.

#### Typical Physical Properties

GE Brightness % 90.0

325 Mesh Residue % Max 0.03

Average Particle Size Sedigraph 1.5  $\mu$

Free Moisture % Max 0.5

Specific Gravity 2.63

Refractive Index 1.62

pH (20% Solids) 7.0

#### Typical Chemical Properties

Loss On Ignition % 0 – 1.0

Silica (SiO<sub>2</sub>) % 51.0 – 52.4

Alumina (Al<sub>2</sub>O<sub>3</sub>) % 42.1 – 44.3

Iron Oxide (Fe<sub>2</sub>O<sub>3</sub>) % Trace

Titanium Dioxide (TiO<sub>2</sub>) % 1.56 – 2.50

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