

Continuing a Legacy of
Customer Focus and Innovation
functional anhydrous and hydrous aluminum silicates

Burgess Pigment

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 | | Typical Chemical Properties | |
|------------------------------------|-------|--|-------------|
| GE Brightness % | 90.0 | Loss On Ignition % | 0 – 1.0 |
| 325 Mesh Residue % Max | 0.03 | Silica (SiO ₂) % | 51.0 – 52.4 |
| Average Particle Size Sedigraph | 1.5 μ | Alumina (Al ₂ O ₃) % | 42.1 – 44.3 |
| Free Moisture % Max | 0.5 | Iron Oxide (Fe ₂ O ₃) % | Trace |
| Specific Gravity | 2.63 | Titanium Dioxide (TiO ₂) % | 1.56 – 2.50 |
| Refractive Index | 1.62 | | |
| pH (20% Solids) | 7.0 | | |

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