

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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