BURGESS KE

SURFACE MODIFIED CALCINED ALUMINUM SILICATE

BURGESS KE is an 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 µ

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_2) % 51.0 – 52.4

Alumina (Al_2O_3) % 42.1 – 44.3

Iron Oxide (Fe_2O_3) % Trace

Titanium Dioxide (TiO_2) % 1.56 – 2.50

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