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Translink[®] 445

Calcined Surface-modified Aluminum Silicate

Product Description

Translink 445 is a fine particle-size calcined kaolin grade featuring high brightness. It has been dehydroxylated by controlled heat treatment to remove crystalline-bound hydroxyl groups and to improve brightness. Translink 445 is highly pulverized for ease of dispersion and is surface treated with an amino functional additive.

Application Information

Translink 445 is a high-performance reinforcing extender designed to be compatible in polyamides, polyesters, epoxies, phenolics and other polar polymers. Translink 445 reduces water absorption while increasing tensile strength, flexural strength, and the heat deformation temperature. It also improves dimensional stability when compounded in polymeric systems. Its fine particle size and low residue improve impact strength in engineered polymers. Typical applications include polyamides (6, 66 and blends), TPE/TPO, epoxy and polyurethane coatings.

Physical Properties	Typical Value
Physical Form	Highly Pulverized Powder
Special Modifications	Dehydroxylated/ Surface-modified
GE Brightness (%)	90
Screen Residue, 325 Mesh (%)	0.02*
Free Moisture (%) measured at 105°C	0.5
pH (20% solids)	9
Median Particle Size, Sedigraph (µm)	1.4*
Specific Gravity	2.63
Bulk Density, Loose lb/ft ³ (kg/m ³)	20 / 320
Bulk Density, Tamped lb/ft ³ (kg/m ³)	35 / 560
Oil Absorption, Rubout (ASTM D-281)	50

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