

AnTec PV-01

Ultrafine Aluminum Silicate

Product Description

AnTec PV-01 is an engineered product featuring high brightness. It has been dehydroxylated by controlled heat treatment for removal of crystalline-bound hydroxyl groups based on particle size screening of ultra-pure crudes. Its unique crystal structure forms a ultra-micro structure where the hydroxyl on interface bonds with active groups from various polymers, therefore increasing the hardness and impact resistance of the polymers. And it can absorb or block free ions, which improves the thermal stability and aging resistance of the finished products.

Application Information

AnTec PV-01 is recommended for use in rubber latex, adhesive, PVC profiled materials, and plastic masterbatch. It increases tensile strength and flexural strength, improves the processing performance, provides wear resistance, heat resistance and oil resistance in rubber latex. It increases adhesion when used in adhesives and increases heat deformation temperature and improves dimensional stability, mechanical strength, wear resistance, insulation property, aging and chemical resistance when compounded in PVC

When used in PVC window profile, AnTec PV-01 can improve performances especially brightness and aging property. Meanwhile it can reduce cost structure and lift competitiveness of finished products.

According to our lab research and evaluation and feedback from customers, AnTec PV-01 can be added into PVC without special treatment in PVC manufacturing process. Dosage is recommended to be 3 to 5 parts of AnTec PV-01 per 100 parts of PVC.

Typical Properties	
Physical Form	Highly Pulverized Powder
ISO Brightness (%)	>95
Screen Residue, 325 Mesh (%)	<0.005
Free Moisture @ 105 deg C (%) as produced	<0.5
pH (28% solids)	6.0-7.0
Specific Gravity (g/cm ³)	2.63
Median Size(μm)	1.0
Oil Absorption, Rubout (ASTM D-281)	62
Bulk Density (kg/m ³)	450
Hegman	>4

Chemical components (%)							
SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	K ₂ O	Na ₂ O	CaO	MgO
52.00±1	45.00±1	≤0.50	≤0.80	≤0.10	≤0.20	≤0.50	≤0.20

Anpeak Specialty Minerals Co.,Ltd is ISO 9001 and ISO 14001 certified.

The above typical properties are for general information only and should not be used for specification purposes. Performance characteristics may vary depending on specific application. All products should be tested in customer's formulation prior to use.

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