Nano - Clay

Characterization and Description

Product Identification	
Product Name	C401
Chemical name	Nano – clay (Montmorillonite Nano Clay)
Chemical Formula	-
Intended use	Polymer Additive (Mechanical &Thermal properties, Barrier, Flame Retardant)

Physical / Chemical Properties	
Physical state	Powder
Purity	> 95 %
Properties & Use	thermal & mechanical properties, Dimensional stability, thermal resistance, Barrier
Appearance	Milky
Odor	None
Average thickness of particles	< 25 nm
Product features	Flame retardant material, paint, polymer & resin, food and beverage packaging applications
Moisture	< 2 %

Clay Nano Powder

Product Information

1.Type: powder
2. Average thickness of particles: <25 nm
3.Color: Milky
4.Purity: > 95 %
5. Structure: Plate Like
7. Density: 0.45 g/cm^3

Application Categories

1. Academic Research
2. Chemical R&D
3. polymer & plastic industrial
4. food and beverage packaging applications
5. paint industry

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Application

Plate-like montmorillonite is the most common nano Clay used in materials applications. Montmorillonite consists of ~ 1 nm thick Aluminosilicate layers surface-substituted with metal cations and stacked in ~ 10 µm-sized multilayer stacks. Depending on surface modification of the clay layers, montmorillonite can be dispersed in a polymer matrix to form polymer-clay nanocomposite.

Clay Nanoparticles have attracted wide interest in view of their excellent optical, electrical, thermal and mechanical properties. It has been applied in many fields, such as polymer, catalysis and paints.

Mixing

Instructions: Depending on your application and industry varies between % 1 to % 5 wt.

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