Paintone 20A

Datasheet

Nano Parmin Khavaran Co.

Product description

Paintone 20A is a special grade of nanoclays comprised of organo-modified phyllosilicates which is used as an additive for low to intermediate polarity organic systems. It also exhibits good compatibility with polymers.

Typical specifications

Color	Creamy white
Moisture	2-3%
Particle size	< 50 µm
Decomposition temperature	223 °C
Chemical activator (Paint)	Ethanol
Chemical compatibilizer (Polymer)	Maleated polymers (e.g. PE-g-MA)

Applications

Paintone 20A is used as rheological additive in paints, greases, adhesives and waxes. It provides thixotropy with no syneresis, increases viscosity and prevents pigment settling during storage. Paintone 20A can also be added to thermoplastic polymers and elastomers as filler. It improves the gas barrier and mechanical properties of polymers.

Recommended use

- **Paints:** Typically less than 1%.
- **Polymers:** 3-5 parts per hundred (PHR) of total amounts of polymer compound. It may be proposed to substitute typical filler of the primary composition by the same levels of Paintone 20A. In the case of elastomers, Paintone 20A may reduce the scorch time, so, the vulcanization system may need to be optimized.

Processing instructions

- **Paints:** The addition of Paintone 20A to paints is carried out by the use of an appropriate mixing apparatus such as various impellers, ball mills and so on. Then, a proper activator like ethanol is to be utilized. The production and use of concentrated gels of Paintone 20A is another promising candidate.
- **Polymers:** A twin extruder or a brabender may be required to disperse Paintone 20A in thermoplastic compositions. Maleated polymers or the other polar compatibilizers such as polyolefin waxes may enhance the dispersion degree in thermoplastic materials. To prepare elastomer nanocomposites, a banbury mixer may be used to mix the Paintone 20A in the polymer matrices.

+98 9155620907
+98 9033026675

www.nanoparmin.com
info@nanoparmin.com

South Khorasan Province, Science and Technology Park, Birjand, Iran