Nanomer® I.28E

General Description:

Nanomer® nanoclays are high purity, surface compatabilized montmorillonites, suitable for use in a wide variety of plastics. This Technical Datasheet describes patented Nanomer grades specifically designed for polyolefin applications.

Product Data*:

Surface Modifier	Octadecyl trimethyl ammonium
Appearance	Off white free flowing powder
Surface Modifier Concentration	28-30 wt%
Bulky Density	250-300 kg/m^3
Particle Size (Mean)	15-20 Micron
Specific Gravity	1.8 g/cm^3
X-ray diffraction (d_{001})	24-26 Å
Product Package**	20-kg paper bag or 400-kg bulk bag

*** These data are for reference use only. Certificate of Analysis will come with each commercial shipment.**

**** Research quantity product is available form form Beijing East-West Company: www.east8west.cn**

Application Guideline:

Nanomer I.28E is designed for use as additive in general thermoset resins, e.g., epoxy, polyurethane and unsaturated polyester, vinyl esters. Incorporation of Nanomer nanoclay into thermoset resin improves physical performance properties and flame resistance. Detailed information can be found in Nanocor technical datasheets, T12, T14 and T17. The loading level is commonly in the range of 4-6 wt% for physical property enhancement.

Nanomer I.28E can also be used in themoplastic resin to enhance flame resistance. It is necessary to combine Nanomer with regular flame retardant to achieve relevant UL or similar regulatory standards. It is possible to reduce the traditional flame retardants to reduce toxicity, specific gravity and enhance processing capability.

Processing Guideline:

Please refer to Nanocor technical datasheet P-804 for detailed processing recommendation.

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