

BYK Cloisite® 10A Nanoclay

Category : Other Engineering Material , Additive/Filler for Polymer , Polymer

Material Notes:

Cloisite® 10A is an additive for plastics to improve various plastic physical properties, such as reinforcement, HDT, CLTE and barrier.

Information provided by Southern Clay Products Southern Clay Products is now a part of BYK Additives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BYK-Cloisite-10A-Nanoclay.php

| Physical Properties | Metric | English | Comments |
|---------------------|-------------|-----------------------------|----------|
| Specific Gravity | 1.90 g/cc | 1.90 g/cc | |
| Bulk Density | 0.1636 g/cc | 0.005909 lb/in ³ | Loose |
| | 0.2647 g/cc | 0.009560 lb/in ³ | Packed |
| Loss On Ignition | 39 % | 39 % | |
| Particle Size | <= 2.0 µm | <= 2.0 µm | 10% |
| | <= 6.0 µm | <= 6.0 µm | 50% |
| | <= 13 µm | <= 13 µm | 90% |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|----------------|---------------------------------|
| Hardness, Shore D | 83 | 83 | 5% Cloisite® reinforced Nylon 6 |
| Tensile Strength, Ultimate | 101 MPa | 14600 psi | 5% Cloisite® reinforced Nylon 6 |
| Elongation at Break | 8.0 % | 8.0 % | 5% Cloisite® reinforced Nylon 6 |
| Modulus of Elasticity | 4.657 GPa | 675.5 ksi | 5% Cloisite® reinforced Nylon 6 |
| Flexural Modulus | 3.78 GPa | 548 ksi | 5% Cloisite® reinforced Nylon 6 |
| Izod Impact, Notched | 0.270 J/cm | 0.506 ft-lb/in | 5% Cloisite® reinforced Nylon 6 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|---------------------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 96.0 °C | 205 °F | 5% Cloisite® reinforced Nylon 6 |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------|----------|----------|
| Moisture Content | <= 2.0 % | <= 2.0 % | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

| Modifier Concentration, meq/ 100g clay Descriptive Properties | 125 Value | Comments |
|--|--|----------|
| Organic Modifier | dimethyl, benzyl, hydrogenated tallow, quaternary ammonium | |
| X-Ray Diffraction d-spacing (001) | 19.2 Angstroms | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China