

BYK Cloisite® 93A Nanoclay

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

Material Notes:

Cloisite® 93A 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-93A-Nanoclay.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.88 g/cc	1.88 g/cc	
Bulk Density	0.1692 g/cc	0.006111 lb/in ³	Loose
	0.2888 g/cc	0.01043 lb/in ³	Packed
Loss On Ignition	40 %	40 %	
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
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Modifier Concentration, meq/ 100g clay Descriptive Properties	90 Value	Comments
Organic Modifier	methyl, dihydrogenated tallow ammonium	
X-Ray Diffraction d-spacing (001)	23.6 Angstroms	

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