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Chitin Nanoparticles

NS6130-12-001273

Purity
>99%
 CAS No.
1398-61-4

Pure chitin is a naturally occurring biopolymer. It is a linear polysaccharide in which each residue is the fully acetylated N-acetyl-glucosamine. It is plentiful polysacchhrde in the world. These nanoparticles are biodegarable, non-toxic, hydrophobic. It is found in the shrimp shells, and fungal cell walls. This is especially useful for food packaging applications, since barrier properties are related to the shelf life of food, which in turn is linked to a potential decrease of the amount of food that is wasted.

Chitin nanoparticles can effectively be manufactured in ethanol. Nano-chitin suspensions in ethanol can be utilised to make composite polylactic acid (PLA) films. With the addition of chitin nanoparticles to PLA improves film tensile strength and Young's modulus. Moreover, for improving UV-blocking, Chitin nanoparticles are added to polylactic acid.

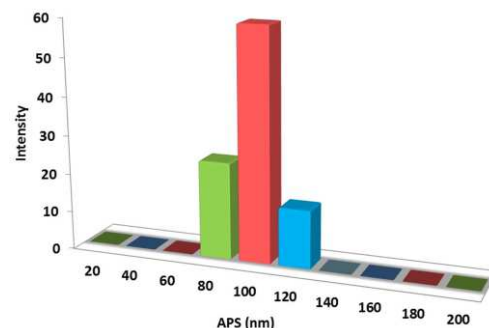
Technical Specification:

Molecular Formula	Molecular Weight	Viscosity	Storage Temp.
C ₃₀ H ₅₀ N ₄ O ₁₉	770.8g/mol	≤100 mpa.s	15 - 30 °C

Applications:

- ✓ Cosmetic Products
- ✓ Biotextile
- ✓ Food packaging
- ✓ Pharmaceuticals industry

APS:
80-100nm



ISO 9001:2015
 CERTIFIED COMPANY



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