Greenhope™

NATURLOOP
Starch-based Fully Compostable Resin

TECHNICAL PRODUCT INFORMATION
NATURLOOP EB

GENERAL	Polymers or plastic are high molecules, and very stable and inert to normal environments. This is important property of polymer resins to convert into many different types of products. In the packaging and plastic industry, while it is important to use polymers for films, bottles, caps for consumer products; it can be an environment problem as the packages remain very stable after use. In certain applications, it is desirable to enable the polymer package to be self-degradable after usage for a certain period.
DESCRIPTION	NATURLOOP EB is a compostable plastic made from starch-based biopolymer
APPLICATIONS	Shopping Bag, Polymailer Bag, Daily Landfill Cover, Packaging, Glove, Garbage Bag, Fruit Bag, etc.

PHYSICAL PROPERTIES

Pysical Form	Pellets
Color	White to brown
Odor	Odorless
Density	1.26 g/cm^3
Melt Index	5 g/10 min
Melting Point	110^{o}C
Moisture Content	<1 %

DOSAGE	100% for normal loading
ADDITIONAL PROCESSING INFORMATION	NATURLOOP EB is easy to process under normal operating conditions. Processing Temperature 110-120 ^{o}C. Blow up ratio 1.5 – 3. It is recommended to pre drying before processing. The typical drying conditions are 80^{o}C for 2 hours (rotating drying). The product is non-toxic and requires no additional safety equipment.
STORAGE	The storage should not exceed 45^{o}C during transportation and storage in ambient temperature (RH 65-70 %). This product should be stored in a dry, well-ventilated warehouse, avoiding contact with dirt, water etc and away from direct sunlight. Shelf-life of the product is about 1 year under this storage condition.
REMARK	NATURLOOP EB currently come in 25 kg packing.
COMPOSTABLE PROCESS	Composting or compostability of NATURLOOP EB is defined as natural biological processes, carried out under controlled or uncontrolled aerobic conditions. In this process various microorganisms, including bacteria and fungi, break down NATURLOOP EB into simpler substances, i.e.: compost, after decomposition within three months. In the soil, NATURLOOP EB are a decrease in properties and decompose due to the action of natural organisms such as bacteria and fungi. Plastic film/bag would decompose in soil about 4-12 weeks depend on activity of the soil microorganisms.

PT. HARAPAN INTERAKSI SWADAYA

Office:
Grand ITC Permata Hijau, Blok Saphire No. 22
Jl. Arteri Raya Permata Hijau, Kebayoran lama
Jakarta Selatan - Indonesia, 12210

Factory:
Jl. Raya Serang KM 17.2/43
Cikupa, Tangerang - Indonesia,
15710

Contact Us:
T. +62 21 5017 8989
E. info@greenhope.co
www.greenhope.co

Greenhope™

Home Compost Test Result of NATURLOOP EB film as follows:

0 week	3 weeks	5 weeks	12 weeks

Home Compost Test Result of Naturloop for three Months

Biobased - Industrial compost - Home compost – Biodegradable - Landfill safe –Recycleable - Fully certified to all global standards - Certified pass for migration testing - FDA approved - Non toxic - Non hazardous - Less energy consumed - Easy to process - Excellent properties - Low wastage - Several grades available - Scalable supply capacity - Excellent technical back up - Consistent quality – Competitively price

PT. HARAPAN INTERAKSI SWADAYA

Office:
Grand ITC Permata Hijau, Blok Saphire No. 22
Jl. Arteri Raya Permata Hijau, Kebayoran lama
Jakarta Selatan - Indonesia, 12210

Factory:
Jl. Raya Serang KM 17.2/43
Cikupa, Tangerang - Indonesia, 15710

Contact Us:
T. +62 21 5017 8989
E. info@greenhope.co
www.greenhope.co