



## Safety Data Sheet

Revised Date : 2020/08/15

### 1. Chemical Product And Company Identification

Product Name : NYLOY® GT-0010N 32YLG10
Chemical family : Polylactide
Chemical Name : Polylactide Resin
Synonyms : PLA Resin
Product Use : Green Plastics
Manufacturer/Supplier : Nytex Composites Co., Ltd.
Address : No.6, Ln.468,Sec.4, Changsui Rd., Peitou Hsiang, Changhwa County, Taiwan, R.O.C.
Emergency Phone / Fax : (886)-4-8926225 / (886)-4-8922160

### 2. Hazards Identification

NYLOY® GT-0010N 32YLG10 contains no hazardous ingredients.
Hazards category : Not Applicable
Potential health effects Likely Routes of Exposure : Skin contact and inhalation. Eye contact : At room temperature, exposure to vapor are unlikely due to physical properties of the material. At normal processing temperatures, vapor may cause irritation of eyes if ventilation is inadequate. Dusts or fibers may cause eye irritation as would any foreign object. Skin contact : No or slight skin irritation due to physical properties of the material. Inhalation : At room temperature, exposure to vapor are unlikely due to physical properties of the material. At normal processing temperatures, vapor may cause irritation via inhalation if ventilation is inadequate. Toxic fumes may be released in fire situations. However, inhalation of dust or fiber particles can cause irritation as would any foreign object. Ingestion : No hazards are anticipated from swallowing small amounts incidental to normal handling operations. No adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

### 3. Composition/Information On Ingredients

Components Name	Weight Percentage (%)	CAS Number
Poly lactide Resin	12-22	9051-89-2
Inorganic filler	68-78	7727-43-7
Phosphorescent pigment	5-15	68611-70-1
Additives	<3	Mixture; Not Applicable
Colorants	<3	Mixture; Not Applicable

### 4. First Aid Measures

<p>Emergency And First Aid Procedure</p> <ul style="list-style-type: none"> <li>• Skin Contact : In case of skin contact, immediate first aid is unlikely to be required. However, this material can be removed with water. Washing off in flowing water or shower. Wash heavily contaminated clothing before reuse.</li> <li>• Inhalation : Remove to fresh air if effects occur. Seek medical advice.</li> <li>• Eye Contact : Flush eyes with plenty of clean water. Seek medical advice if necessary.</li> <li>• Ingestion : Flush mouth with clean water. If swallowed, seek medical advice. Do not induce vomit unless directed to do so by medical personnel.</li> </ul>
<p>Prompt To Doctor : No specific antidote. Treatment based on judgement of the doctor in response to reactions of the patient.</p>

### 5. Fire Fighting Measure

<p>Suitable Extinguishing Media : In case of fire, use water spray or foam.</p>
<p>Special Exposure Hazards : At high temperatures carbon monoxide and carbon dioxide may be emitted. See decomposition products shown below for a more thorough discussion. Thermal decomposition products of this material, which may be produced at temperatures in excess of the recommended processing temperatures, may be irritating to the mucous membranes and respiratory tract.</p>
<p>Special Extinguishing Procedure : Wear self-contained breathing apparatus and protective clothing.</p>
<p>Fire Fighting Equipment : This material is a combustible thermoplastic material which will melt and drip when ignited and give off combustion products which are toxic. Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus and protective clothing. Equipment should be thoroughly decontaminated after use.</p>
<p>Unusual Fire and Explosion Hazards : This material, as manufactured, packaged and sold, poses no explosion hazards. In addition, this product poses no explosion hazards under normal conditions of use. However, as with any organic chemicals, particularly with filled inorganic filler in this material, if it is milled or ground into a fine powder,</p>

the powder/fines could form an explosive mixture when dispersed in a sufficient quantity of air.

## 6. Accidental Release Measures

Sweep or scoop up and remove.  
Resin Pellets on floors are slippery and can cause falls.  
Remove solid particles from floors to prevent falls.  
Collect material and transfer to appropriate containers for reclamation or disposal.

## 7. Handling and Storage

This material is for industrial use only.  
Precautions to be taken in handling :  
Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin and clothing.  
Avoid breathing vapor from heated material. Use only with adequate ventilation.  
Avoid contact with oxidizing materials.  
Other precautions  
Conveying lines and equipment in material handling systems should be grounded to eliminate or reduce buildup of static electricity. Avoid sources of ignition as in any area where dust may be produced.  
Storage Precaution : Stored in cool and dry place. Keep container tightly closed to prevent moisture absorption and contamination.

## 8. Exposure Control/Personal Protection

Eye Protection : This product does not cause significant eye irritation or eye toxicity requiring special protection. It is a good industrial practice to minimize eye contact.

Skin Protection : This product does not cause significant skin irritation or skin toxicity requiring special protection. It is a good industrial practice to minimize skin contact.  
When material is heated, wear glove to protect against thermal burns.

Respiratory Protection : In normal use, active carbon mask or suitable mask is needed to avoid breathing dusts of fumes or fibers.

Ventilation : Provide natural or mechanical ventilation to minimize exposure. Using local mechanical exhaust ventilation to remove vapors and fumes liberated during hot processing from the working area is preferred.

Additional Comments : The greatest potential for injury occurs when working with molten PLA such as during the purge of a molding machine, extruder and the like. During this type of operation, it is essential that all workers in the immediate area wear eye protection and skin protection (safety glasses, sleeves, gloves, etc.). Any machine used to process molten PLA resin should always be completely flushed with a material such as polyethylene or polypropylene before shutdown.

## 9. Physical And Chemical Properties

Appearance : Pellets  
Odor : Sweet  
pH Value : Not Applicable  
Melting Point : 150-180°C (302- 356°F)  
Specific Gravity(H<sub>2</sub>O=1) : 2.9~3.0  
Vapor Pressure : Negligible  
Vapor Density : Not Applicable  
Boiling Point : Not Applicable  
Solubility in water : Insoluble in water (at 20°C).

Note : These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

## 10. Stability And Reactivity

Reactivity: None expected under conditions of normal use.  
Chemical stability: Stable under recommended storage conditions.  
Conditions to avoid: Temperatures above 446F (230 °C). Avoid keeping resin molten for excessive periods of time at elevated temperatures. Prolonged exposure will cause polymer degradation  
Materials to avoid: Oxidizing agents, Strong bases Hazardous decomposition products: Burning produces obnoxious and toxic fumes, Aldehydes, Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

## 11. Toxicological Information

Nytex has not conducted toxicity studies on this material. However, this material is considered to be practically nontoxic.  
Effects of Exposure to avoid  
Inhalation : At elevated temperatures, vapor may be irritating.  
Eyes : At elevated temperatures, vapor may be irritating. Molten material will produce thermal burns.  
Skin : Molten material will produce thermal burns.  
Ingestion : Expected to be a low ingestion hazard.

### Additional information

This material contains glass fiber as reinforcement filler. Human exposure to fiberglass dusts and fibers has been reported to cause skin and eye irritation as well as respiratory tract irritation.  
Thermal decomposition products of this material, which may be produced at temperatures in excess of the recommended processing temperatures, may be irritating to the mucous membranes and respiratory tract.

## 12. Ecological Information

Eco-toxicity: Toxicity to fish - No relevant studies identified.  
Persistence and Degradability: This material is not expected to be readily biodegradable.  
Bio-accumulate Potential: Product is not likely to accumulate in biological organisms.  
Mobility in Soil: This product has not been found to migrate through soils.  
Other Adverse Effects: This material has not been tested for environmental effects.

## 13. Disposal Information

This product should not be dumped, spilled, rinsed or washed into sewers or public waterways. This material when discarded is not a hazardous waste. Discharge, treatment, or disposal may be subjected to national, state or local regulations. Incineration or recycle is recommended. Consult your attorney or appropriate regulatory officials for information on such disposal.

## 14. Transport Information

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.  
This product is not hazardous under the DOT, ICAO, or IMDG regulations.  
-DOT (USA) Status : Not regulated  
-Air- International Civil Aviation Organization (ICAO)  
-ICAO Status : Not regulated  
Sea- International Maritime Dangerous Goods (IMDG)  
-IMDG Status : Not regulated

## 15. Regulatory Information

Not Applicable.

## 16. Other Information

We believe the information and recommendations on this data sheet are correct to the best of our current knowledge. However, no warranty is made with respect to its completeness or accuracy. This material safety data sheet does not anticipate all the situation in which this material is processed or all the physical and mental characteristics of each individual who is involved in the processing. It is user's obligation to test and use this material safety data in accordance with every relevant regulation and law. Unless otherwise agreed in writing, no liability is assumed by us for any claims or damages caused in relation to the use of this material.  
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