

ShangHai PuDi Packing Material Co., Ltd.

CERTIFICATE OF ANALYSIS

[Information about Manufacturer]

Name of Company: ShangHai PuDi Packing Material Co., Ltd.

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Department in charge: Technology & Quality Department

[Name of Product]

LLDPE FILM

[Characteristic of the substance]

Mono-component or mixture: mixture

Content: 100% LLDPE

Chemical name: Mao polyethylene, Linear low density polyethylene

chemical formula and structural formula: $-\left[\text{CH}_2-\text{CH}_2\right]_n-\left[\text{C}_2\text{H}_4-\text{C}_n\text{H}_{2n}\right]_n-$

[Category of dangerousness and toxicity]

Name of classification: There is no relevant classification standard.

Dangerousness: Generally there is no risk of fire, explosion or dangerous reaction.

Toxicity: Generally there is no evident toxicity.

Action to environment: On stipulated storage conditions, it does not decompose.

[Emergency measures]

When splashed into eyes: Rinse with tap water and see the doctor

When contacting with skin: If it irritates the skin, wash with water and soap. If the melted polymer of it adheres to the skin and causes scald, do not remove the polymer from the skin, but cool it with cooled water and seek help from doctor.

When inspired into throat: Generally there is no volatile of it. When the temperature is higher than 110 °C , it may



irritates the eyes, nose and throat. When people contact with it, it may make the eyes congested and weeping, and may cause itch or ache of skin, nose and throat. Whenever any abnormality occurs, see the doctor.

When it is taken into the mouth, immediately spit it out; if it is swallowed into the stomach, see the doctor.

[Fire measures]

Fire fighting method: Put the fire out with extinguishing agent or plenty of water. In fire fighting, people shall use breather.

Extinguishing agent: water, foamite (air foam) and powder extinguishing agent

Dangerous and toxic combustion product: In most cases, it is carbon monoxide or carbon dioxide.

[Leakage measures]

Leakage measures: one of the following measures: ①reclaim, prill and reprocess ②discard ③burn out.

[Conveyance and storage]

Product handling: In order to prevent the foot passengers from tumbling, the film dropped on the walk area shall be removed.

Conveyance: In conveying the product film, it is necessary to equip the working site with static eliminator to assure personal safety. In addition, measures shall be taken to avoid the fire from the burning of solvent.

General product conveyance precautions: to avoid overload and dropping from high.

For the conveyance of cylindrical shaped product, one shall use the tool appropriate for the product to prevent the hands, feet and waist from being injured.

If the film product covers the head of a person, it may cause choking, so, never put the film on the head.

Storage: The product shall be kept apart from heat resources and fire resources. It shall be stored in dry rooms.

[Exposure prevention measures]

Density management: There is no stipulation on density limit.

Protection appliance: Safety shoes, safety cap (steel helmet) and gloves may be used depending on the need of particular situation.

[Physical/chemical characteristics]

Appearance and shape: transparent film

Density: 0.918

Volatility: no

Melting point: 110~120°C



Solubility: not soluble in water

[Dangerousness data]

Ignition point: 300°C or higher

(Stability and reactivity)

Combustibility: yes

Ignitability: no

Oxidizability: no

Selfreacting activity and explosiveness: no

Stability and reacting activity: stable at normal temperature

[Toxicity]

Irritability (to skin and eye): Vapor of it has irritability to eyes and respiratory system.

Sensitiveness: no

[Action to environment]

Comparability: It does not decompose even for a long time under normal conditions.

Other matter: In order to prevent this polymer from being taken or absorbed by aquatic organism and birds, it is forbidden to let or drop any piece of the polymer to sea and other water area.

[Waste treatment]

Landfill: Landfill treatment shall be carried out by qualified industrial waste treatment personnel or under the commission of local organization for public affairs according to “Regulations on the Treatment and Elimination of Waste”.

Burning: Burning treatment shall be carried out with the burning equipment that is in line with “Regulations on the Prevention of Air Pollution” and other ordinances.

[Conveyance]

Conveyance: In conveyance people shall avoid throw and other rough handling which may cause damage and leakage. The product polymer shall be apart from flame and objects of high temperature.



[Applicable laws and regulations]

Fire Control Law: stipulations on the sorts of combustibles and synthetic resin (the stipulated quantity being 3000kg).

Relevant laws on waste treatment and elimination: stipulations on industrial waste including waste plastics.

[Notice to the use of this instruction]

This instruction is only applicable to the product and material stipulated in this instruction. The particular models of the products are shown in Annex Table 1. The product is not suitable for the usage in conjunction with other material and the usage under other processing conditions. For the sake of safety, the users of this instruction shall work out the notices for safe usage according to the safety data from this instruction. In addition, this product is forbidden to be used in the medical equipment for organ transplantation and for transfusion. Before using this product, people shall acquire detailed knowledge of this instruction so as to prevent accidents.

This instruction is worked out according to the available latest technical data and information. It may also be revised according to the latest discoveries and test results.

