



Material Safety Data Sheet

1. Product and company identification

PRODUCT

Product name: *Biaxially oriented polypropulene film (BOPP film)*

Trade name: FXC, FXCB, FXCM, FXCL, FXPR, FXCFM, FXPFM, FXP, FXPF, FXPA, FXPLA, FXPLF, FXA, FXCW, FXCP, FXCWP, FXPWP, FXWL, FXCMT, FXCMTB.

Application of the substance: *Packaging, printing, labeling & lamination*

COMPANY

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2. Hazards identification

2.1. Product classification

This product is not classified as dangerous under Regulation (EC) N° 1272/2008.
This product according 1907/2006/EC not classified as hazardous.

2.2. Label elements

Not necessarily the product to be labeled in accordance with EC regulations or the national laws.

2.3. Other hazards

If handled with proper care and at intended use, the product does not cause any harmful effects

Potential physical / chemical effects

Thermal burn hazard - contact with hot material may cause thermal burns. Material can accumulate static charges that may cause an ignition.

Potential health effects

Low order of toxicity. No adverse effects due to inhalation are expected.

Skin Contact: The contact with hot molten material may cause severe burns.

Eye Contact: If heated to 400 °C, the product may form vapors or fumes which may cause irritation to the eye.

Ingestion: The materials are biologically inert.

Environmental Impact: Non biodegradable, non compostable.

Inhalation: If heated to 400 °C, the product may form vapors or fumes which may cause irritation to the respiratory tract.

Physico-Chemical Hazards: The material is combustible if exposed to flames. Handling of material may create electrical charges and sparks which may be a cause of ignition for other flammable materials.

3. Composition/ information on ingredients

Component Name	CAS No.	Proportion (%)
Polypropylene (PP)	9003-07-0 Polypropylene	(> 99%)

Hazardous Components No Reportable Hazardous Substance(s) or Complex Substance(s)

Physical State Solid

Form Film

Colour Transparent, White , Metallised

Odour None

4. First aid measures

Information: At room temperature the product is not irritant and have failed off dangerous fumes. All measures below apply to critical situations (Fire, incorrect process conditions).

Inhalation: In case of adverse exposure to cash and / or vapors formed at elevated temperatures or burns, immediately remove the affected person from the room. Apply artificial respiration if breathing has stopped. Get medical advice if necessary.

Skin contact: Direct contact with the product does not lead to skin irritation. If there is a contact with the hot material, the molten material with the skin should be cooled as quickly as possible with water, and to obtain medical assistance for removal of adhering material and treatment of burns.

Ingestion: No adverse effects due to ingestion are expected. If necessary, seek medical advice.

Eye contact: Polypropylene flakes or dust particles are not dangerous but can cause eye irritation due to their mechanical action. When flakes or dust particles into contact with eyes, rinse eyes with water. If an eye irritation persists, seek medical attention.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water haze, carbon dioxide (CO₂), foam, dry chemical, halon, water spray (mist) only to cool the surfaces exposed to the fire.

Unsuitable extinguishing media: Do not use water jets (stick jets) for extinguishing fire, since they could help to spread the flames.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Polypropylene film will burn if exposed to flames, giving off harmful fumes, which should not be inhaled. Heat value – 8 000 – 10 000 kcal/kg. carbon dioxide (CO₂), carbon monoxide (CO). If the fire is big (temperature is between 400 °C and 700 °C) the formation of hydrocarbons and aldehydes is possible.

5.3 Advice for firefighters

Use protective equipment: Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA).

6. Accidental release measures

Cut off the fire source. Collect the film in order to avoid possible slipping of personnel on the floor. It is recommended that eye protection and protective gloves are worn at all the times during cutting and handling of stripping. Put into labeled container and provide safe disposal.

7. Handling and storage

Information for safe handling No special requirements necessary, if handled at room temperature. Avoid spilling the product, as this might cause falls.

Storage Store under dry condition, away from heat sources,

without direct sunlight or UV radiation and temperature between 10 – 30 °C. Do not smoke. Ground equipment electrically.

Fire-fighting measures

Cut off the fire source.

8. Exposure controls and personal protection

General protective and hygienic measures During normal handling protective gloves and the usual protective equipment are recommended. No special requirements under ordinary conditions of use and with adequate ventilation.

Respiratory Protection

Adequate ventilation should be provided whenever the material is heated or mists are generated. Provide system for collecting the vapors which are created during the working process.

Specific Hygiene Measures

Do not eat or drink while working. No smoking.

Hand Eye Skin and Body Protection

It is recommended that eye protection and protective gloves are worn at all the times during cutting and handling of stripping. If contact with hot molten material is possible ,wear heat-insulating and chemical-proof gloves and clothes as well as a face shield.

9. Physical and chemical properties

Form:	Flat flexible film
Colour:	Transparent, white or merallized
Odour:	Odourless
Melting point:	160-165 °C
Ignition temperature:	> 400 °C
Danger of explosion:	Product is not explosive
Density at 20 °C:	0.91 g/cm ³
Solubility in water:	Insoluble

10. Stability and reactivity

Thermal decomposition / conditions to be avoided:	The product is stable at normal handling and storage conditions.
Materials to be avoided:	Strong oxidation agent
Dangerous reactions	No dangerous reactions known
Dangerous products of decomposition:	No hazardous decomposition products known

11. Toxicological information

Primary irritant effect:

On the skin:	No irritant effect
On the eyes:	No irritant effect
Sensitization:	No sensitizing effect known

Total heavy metal content (Pb, Hg, Cd, Cr6) of all BOPP films is lower than 100 ppm.

12. Ecological information

Toxicity	The product is not toxic
Persistence and degradability	The product is not biodegradable
Bioaccumulative	There is no bioaccumulation potential.
Mobility in soil	The product is not mobility in soil
Ecological information:	The product can float on water. The product is not environmentally dangerous according EEC directives, small particles can have physical effects on water and soil organisms.

13. Disposal considerations

Disposal recommendation:	The material can be re-used or recycled according to official regulations. Disposal must be done according to all regulations.
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14. Transport information

According to national and international guidelines, which regulate the road-, rail-, air- and seairtransport, this product is classified as not dangerous.

15. Regulatory information

The material is not subject to classification according to EC lists and other sources of literature known to us. Observe the normal safety regulations when handling chemicals.

16. Other information

The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty for specific product characteristics.

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