

SAFETY DATA SHEET (SDS)

POLYPROPYLENE SHEET — CORRUGATED OR SOLID PRESENTATION

1. Product Identification

Product name: Polypropylene sheet

Description: Thermoplastic polypropylene (PP) based sheet, produced by extrusion

Presentations: Corrugated (fluted structure) and solid (massive sheet)

Recommended uses: Graphic arts printing and packaging (separators, boxes, racks, POP furniture), signage and related industrial applications

Use restrictions: Any use other than those indicated, without prior technical advice

2. Hazard Identification

GHS classification (NOM-018-STPS-2015): In its solid form (article / sheet), the product is not classified as hazardous under the GHS.

- Molten material causes thermal burns.

Label elements: No pictogram, signal word, or hazard statement is required for the solid article.

Other hazards not otherwise classified:

- Thermal decomposition (above the melting point) releases irritating fumes.
- Sheet edges may be rough and cause cuts to the hands; the use of gloves is recommended.
- Fine dust generated when cutting or sanding may irritate the eyes and respiratory tract.
- Fine dust dispersed in the air may form combustible mixtures; the material is sensitive to static discharge (ground handling equipment).

3. Composition / Information on Components

COMPONENT	CAS No.	APPROX. %
Polypropylene	9003-07-0	Balance (> 95 %) *
Color additives / masterbatch	—	Minor quantities *
Titanium dioxide (in white versions)	13463-67-7	Only if applicable *
Carbon black (in black versions)	1333-86-4	Only if applicable *

* Approximate concentrations; confirm against the actual formulation. Pigments (TiO₂ / carbon black) are present only in the sheets of the corresponding color.

Polypropylene-based mixture. Color additives (masterbatch) are present only in the pigmented versions. The pigments are bound within the polymer matrix; they are not bioavailable as respirable dust in the finished article.

4. First-Aid Measures

Eye contact: Rinse immediately with plenty of water for several minutes; if irritation persists, seek medical attention.

Skin contact (molten material): Cool immediately with plenty of cold or running water; do NOT remove material adhered to the skin; seek medical attention. In case of cuts from edges, treat the wound and see a doctor if necessary.

Inhalation (process fumes or dust): Move the person to fresh air. If not breathing, provide assisted respiration; if breathing with difficulty, administer oxygen. Seek medical attention.

Ingestion: Unlikely under normal use. Do NOT induce vomiting; rinse the mouth and seek medical attention if discomfort occurs.

5. Fire-Fighting Measures

Extinguishing media: Foam, carbon dioxide (CO₂), water spray, or dry chemical powder.

Specific hazards: Combustible solid. Combustion generates CO₂, carbon monoxide (CO), ketones, acrolein, formaldehyde, aldehydes, nitrogen oxides (NO_x), and other unidentified organic compounds.

PPE for firefighters: Self-contained breathing apparatus (SCBA) and full protective suit.

Dust hazard: The product as shipped is not a combustible dust; however, fine dust generated in processing can present an explosion risk. Ground transport equipment to prevent static charge accumulation.

6. Accidental Release Measures

Personal precautions: Collect trimmings or pellets to prevent slips; avoid dust generation.

Environmental precautions: Keep the product out of drains and bodies of water.

Cleanup methods: Vacuum or sweep the material and place it in a container for reincorporation into the process or disposal in accordance with Section 13.

7. Handling and Storage

Handling: Maintain adequate ventilation; minimize dust generation; ground equipment to prevent static charge; wear gloves due to edges; keep away from ignition sources.

Storage: Clean, cool, and dry place, away from heat, sparks, flames, and strong oxidizers. Store below 60 °C (140 °F).

8. Exposure Controls / Personal Protection

Occupational exposure limits (reference values applicable only if the pigment is present; verify the current STPS LMPE):

- Carbon black (black versions): ACGIH TLV-TWA 3 mg/m³ (inhalable fraction).
- Titanium dioxide (white versions): ACGIH TLV-TWA 10 mg/m³.
- Dust not otherwise classified: apply the nuisance dust / particulates-not-otherwise-specified criterion.

Engineering controls: Local exhaust ventilation in cutting and grinding areas.

Personal protection: Safety glasses with side protection; gloves (edges and hot material); cotton clothing when handling molten resin; respiratory protection if dust or fumes are generated above the limits.

9. Physical and Chemical Properties

PROPERTY	VALUE
Appearance	Solid sheet (corrugated or solid); translucent/natural, modifiable with masterbatch
Odor	Slight characteristic / odorless
Density	≈ 0.90 g/cm ³
Melting point	≈ 160–165 °C (typical of polypropylene) *
Solubility in water	Insoluble
Flammability	Combustible solid
Decomposition temperature	Above the melting point
Recycling code	5 (PP)

* Typical value for polypropylene; confirm against the specific resin used.

10. Stability and Reactivity

Stability: Stable at room temperature and under normal handling conditions.

Conditions to avoid: Excessive heat, sparks, and flames.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: CO₂, carbon monoxide (CO), ketones, acrolein, formaldehyde, aldehydes, nitrogen oxides (NO_x), and other unidentified organic compounds.

Hazardous polymerization: Does not occur.

11. Toxicological Information

Acute effects: Process vapors may irritate the eyes and respiratory tract; molten resin may cause thermal burns; cutting dust may irritate the throat, mouth, and stomach if ingested.

Chronic effects: Prolonged inhalation of fine dust may be irritating. When the formulation contains titanium dioxide or carbon black, these are classified by IARC in Group 2B (possibly carcinogenic) in respirable dust form; in the finished article they are bound within the matrix.

Target organ effects: None known.

The solid polymer presents low acute toxicity and is not classified by the oral, dermal, or inhalation routes in its article form.

12. Ecological Information

- Ecotoxicity: inert material; no acute aquatic toxicity is expected.
- Persistence and degradability: not readily biodegradable.
- Bioaccumulation potential: no information available.
- Recyclability: due to its high polypropylene content, recycle under code 5.

13. Disposal Considerations

- Reincorporate into the process or recycle (code 5) whenever possible.
- Sanitary landfill at an authorized facility complying with applicable regulations (in Mexico, LGPGIR).
- Incineration with energy recovery at an authorized facility, in accordance with local, state, and federal regulations

14. Transport Information

Not classified as dangerous goods under SCT (Mexico), DOT (USA), IMDG, or IATA. No UN number assigned.

15. Regulatory Information

- Mexico: NOM-018-STPS-2015 (GHS); LGEEPA; LGPGIR. INECC for reference.
- USA: OSHA HazCom 2012 (reference for the export market).

16. Other Information

Applicability: Polypropylene sheet in corrugated and solid presentation.

This information is based on current knowledge of the product; it is provided as guidance for its safe handling and does not constitute a warranty of properties. The user is responsible for determining the suitability and safety of the product for its specific application.