



Innovative Plastic Sheet and Box Maker

Polyreflex HI-Tech Co., Ltd.

Polyreflex team with over 15 year experiences, specializing in the manufacture of lightweight plastic sheets, one-stop solution for thermoforming, machining, and assembly, dedicated to signs and displays, logistics and packaging, vehicles, and chemical industries. Warmly welcome project purchasing managers, wholesalers, individual consumers and designers to write us your requirements.

Helen G

helen@polyreflex.com

+8613828266785

helenlee7608

Polyreflex Company profile

∞
Our products or solutions

710
We employ 710 employees

15
More than 15 years technology know-how

100%
We are there for you with 100% engagement

6
At 6 locations

89,000
Over 89,000 m² production area

38
Sell more than 38 countries and regions

60,000
Every year we produce 60,000 tons Polyreflex materials

1
Everything from 1 source



Polyreflex TPO Sheet

High Impact Strength

Excellent Thermoforming Properties

High Abrasion Resistance

Description

Polyreflex Thermoplastic polyolefin (TPO)

refers to a mixed material composed of polyolefin (PP or PE), rubber and certain fillers (talc, carbon fiber, etc.). These are members of the TPE (Thermoplastic Elastomer) family.

They generally have good hardness, flexural fatigue, impact resistance and excellent resistance to certain chemicals. TPO is also highly resistant to UV radiation and extremes in temperature, making it ideal for outdoor use.

Regarding the processing of TPO sheets, they are often used in both injection molding and thermoforming projects.



High Impact Strength

Thermoplastic polyolefin (TPO) is based on polypropylene and has been modified to provide better ductility and impact resistance, especially at low temperatures.



Excellent Formability

Thermoplastic polyolefin sheet has a relatively low melting point, which means it can be easily melted and thermoformed into different shapes by vacuum forming.



UV Resistance

TPO compounds can be formulated for increased UV weathering resistance when needed, making it an ideal plastic material for outdoor use.



Flame Retardant

TPO for automotive industry must be flame-retardant. Although polyolefin itself is not flame-retardant, it can be modified by adding flame retardants and stabilizers during the production.



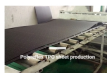
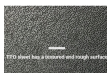
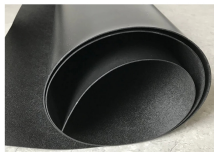
Easy Processing

Drilling, milling, sawing, laser cutting or CNC engraving of these processes can be carried out easily with TPO sheets.

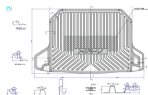
Specifications

Thickness	1.5mm - 5mm
Width	Max. 2100mm
Length	Any length, can be in sheets or rolls
Density	0.96 g/cm ³
Surface	Embossed, textured, rough
Color	Black, steel black, grey are standard colors, custom colors are available

Product Image



Thermoforming Service



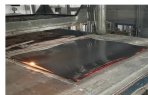
Polyreflex provides thermoforming service



Send us drawings and we make the mold



Thermoforming your customized TPO products



Heat to soften TPO sheet



Blowing of TPO sheet



Vacuum the air between the TPO and mold

The application of TPO in automotive industry

Automobile floor mats

TPO is commonly used in the automotive industry because of its ability to withstand extreme effects of UV exposure and temperature, as well as its impact resistance.



VIEW MORE

Front & rear entry guards

TPO has good toughness and a leather-like textured surface makes TPO sheet very suitable for automotive interiors, such as dashboards, door panels, centre consoles, entry guards, trims.



Trunk boot mats

The vacuum-formed trunk mat of TPO sheet has the advantages of being waterproof and easy to clean. The dirt can be washed off directly with water.



Splash guard

UV-resistant grade TPO in the automotive exterior applications are splash guard, fender flares.



Wheel fender

The fender of SUV, off-road vehicles are mostly made of thermoplastic ABS and thermoplastic TPO, which are lighter than traditional metal materials.



Truck bed mats

TPO sheet is also a perfect material for bed mats of pickups and trucks.

