

**Pars Complex**

**Pars**  
**complex**



The largest producer of single-layer and multi-layer polymer films and sheets

(APET\_CPET\_GPET\_PET+PE\_PS)

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# ABOUT US

**Pars Complex Company** started its activities in a 80000 m2 land with an annual production capacity of 25000 tons in 2011. The company manufactures a variety of polymeric and polyester products.

**Pars Complex Company** has turned the largest producer of various kinds of mono- and multi-layer hygiene films and sheets.





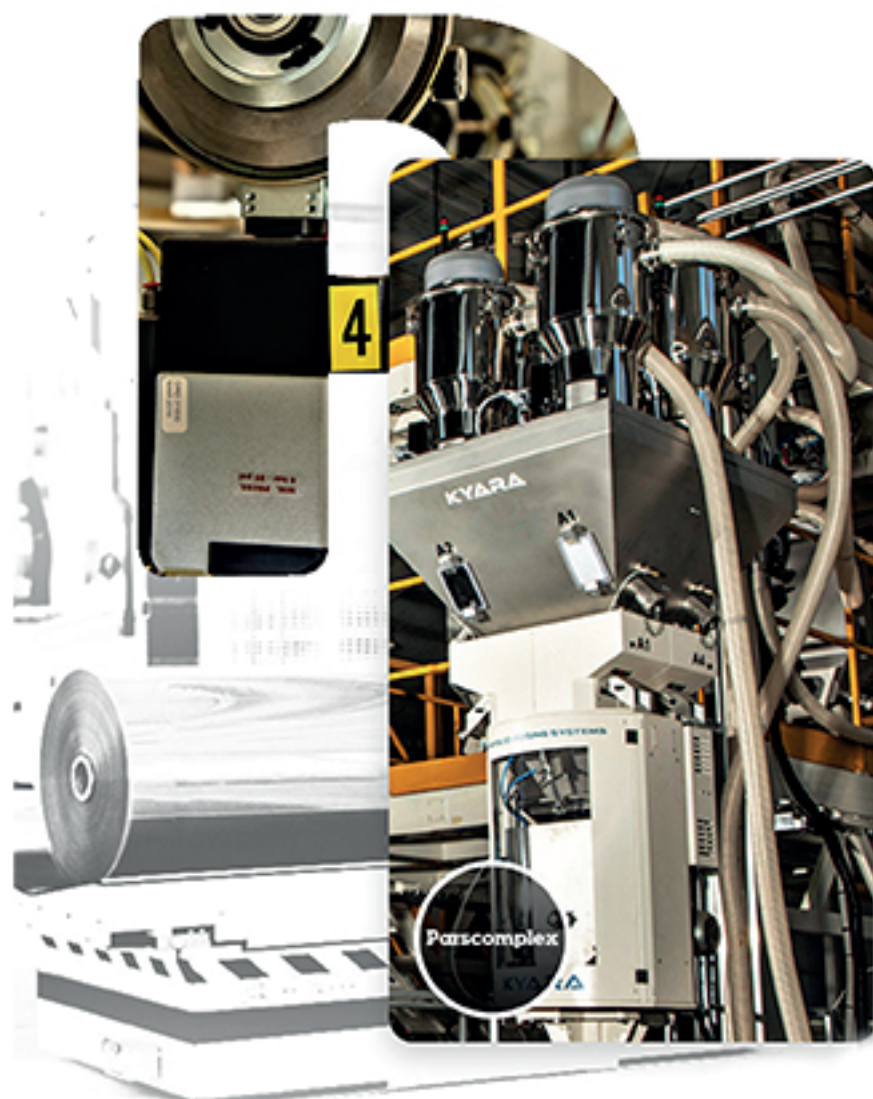
**Pars Complex** produces high-quality tri- and multi-layer food-grade sheets for food packaging, especially mineral water, with FDA certificates using modern European production lines under global standards to prevent polymer migration.





## Technology

## TECHNOLOGY



For the first time in Iran, **Pars Complex** has taken advantage of the ABA technology to produce 1500-150  $\mu\text{m}$  thick PET sheets with a width of 25 to 200 cm. The company produces:

- PET sheets of different thicknesses at customer's request
- Various kinds of sheets with a thickness of 150
- Various kinds of colored PET sheets for pharmaceutical, dairy, agricultural, etc. applications with a maximum daily production rate of 60 tons
- Simultaneous production of high-strength laminate sheets
- Two-color sheets
- Various kinds of PS sheets for dairy products and food packaging



## lamine films and sheets

PET/PE



PET/PE is the ideal packaging for direct contact with food products causing the growing demand for such packaging. The basic properties of PET/PE laminate films and sheets include:

- High transparency
- Long shelf life of foods
- The ability to produce bi-, tri-, and multi-layer films
- Stitching a PE layer
- Ideal packaging for direct contact with foods
- Polymer migration prevention
- The ability to produce two-color and multi-color films





# PET Products PRODUCTS

**The Largest Film and Sheet Manufacturer for Mineral Water Bottle Packaging in the Middle Eastern Region**

**Pars Complex** produces mono- and multi-layer films and sheets for transparent and blue-bottom transparent mineral water cups with a 2000-250 mm width and a thickness of 1500-150  $\mu\text{m}$ .



# PET Products

# PRODUCTS





## HIPS films and sheets

PS

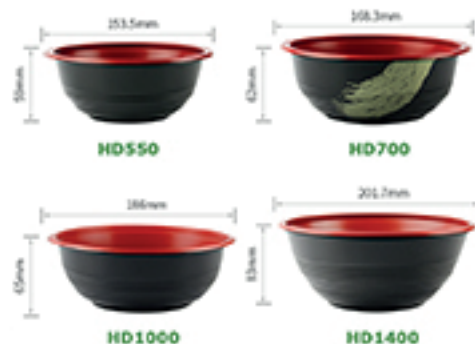


High-impact polystyrene (HIPS) sheets are used for packaging dairy and food products.

Most Iranian food companies use HIPS sheets for packaging food products.

## Two-color films and sheets

PS



For the first time in Iran, **Pars Complex** has produced two-color sheets using the latest European technology.

The company manufactures this two-color product according to the color requested by customers.





# Apet, Cpet, and Gpet films and sheets

## Apet-Cpet-Gpet



**Pars Complex** manufactures various PET products, including **Apet, Cpet, and Gpet.**

Among the advantages of Cpet products is to use them in the microwave to heat food products.



## Confectionary and chocolate packaging

PET

PET sheets are also used to produce containers for packaging chocolates, cacao, biscuit, and similar products.



### Specifications:

- Food grade for direct contact with food products
- Two-color containers and product-related colors
- High strength
- Flexibility for different packagings



# Industrial Applications

# Industrial



Pars Complex products can be used in the industry for packaging toys, tools, and accessories.

# Medical Applications

## Medical



**Pars Complex** has received the hygiene and food and drug administration (FDA) standards and is now active in the medical and hygiene industries.

The company supplies medical products, including face shields, pill (tablet) and toothbrush packaging, etc.



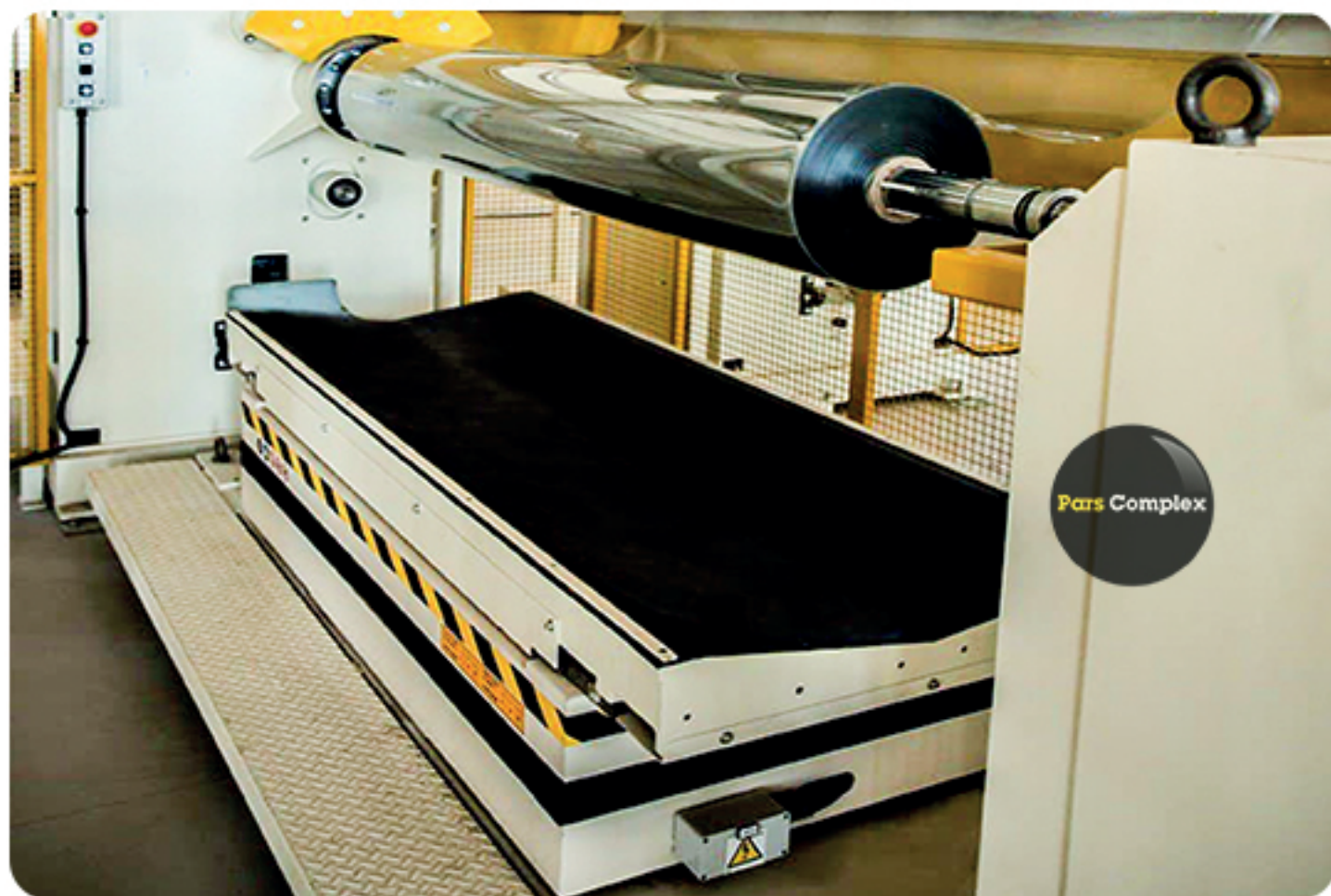


## Greenhouse - Pipe Insulation - Printing Sheets

# PET

Producing sheets with maximum width of 2000 mm for the first time in Iran for polymer pipe and greenhouse insulation and printing industry.

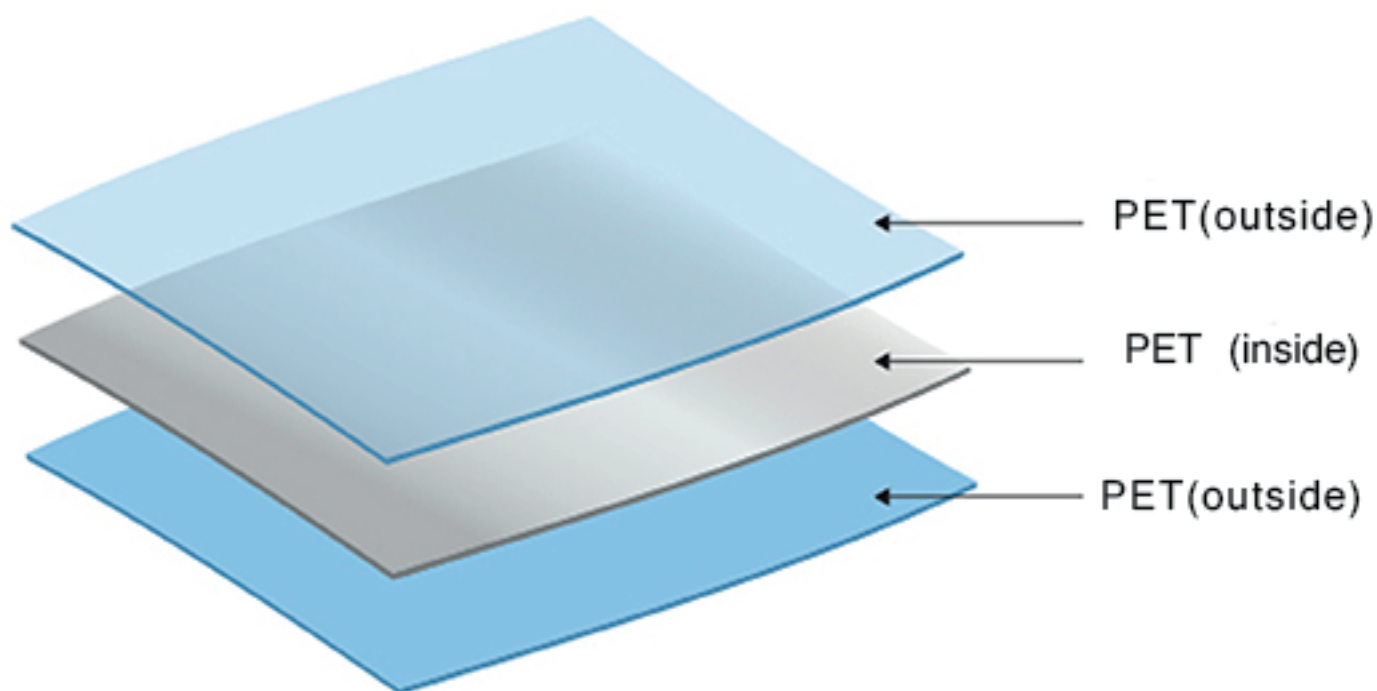
These sheets increase the shelf life of foods.



## Mono- and tri-layer PET films and sheets



The company produces mono-, bi-, tri-, and multi-layer sheets. Tri- and multi-layer sheets more effectively protect products and are more appropriate for direct contact with food products. These sheets increase the shelf life of foods.





Technical Data sheet of A - PET Film

Product name	APET clear A/B/A quality
Characteristic	A-PET film for thermoforming, laminating
Surface	Without treatment and silicone coating
Thickness range	150-1500 µm
Widths	250-2000 mm
Layer	A/B/A
Colours	CLEAR, COLOURED on request
Additives	Antiblock-slip agent SUKANO S479-HP-C (internal)

Properties:	Test method	Value	Unit
Thickness tolerances	DIN 53370:2006	150 – 300 ± 4 % 301 – 500 ± 3 % 501 – 800 ± 2,5 % 801 – 1200 ± 2 %	µm
Unit weight	EN ISO 2286-2	150 – 300 ± 10 % 301 – 600 ± 7 % 601 – 1200 ± 5 %	g/m <sup>2</sup>
Colour	DIN 5033	Visual control	
Width tolerances	EN ISO 1923:1995	± 1	mm
Density	EN ISO 1183-2:2004	1,34	g/cm <sup>3</sup>
Melting Point	EN ISO 11357-3:2013	245	°C
Intrinsic viscosity (IV)	ASTM D2857	0,60 – 0,75	dl/g
Tensile strength	EN ISO 527-3:1995	65 – 70	N/mm <sup>2</sup>
Impact strength	EN ISO 8256:2004	≥ 250	kJ/m <sup>2</sup>
Coefficient of friction	EN ISO 8295:2004	0,2 – 0,4	-
Vicat softening point	EN ISO 306:2004	80	°C
Surface tension	ASTM D 2578	38	dyn
Shrinkage (Oven 125 °C 3 min.) Thickness 400 µm	lengthwise cross	2 – 4 1 – 2	% %
Gas transmission CO <sub>2</sub> O <sub>2</sub> N <sub>2</sub>	DIN 53380	14 2,3 0,4	cm <sup>3</sup> / m <sup>2</sup> · 24h · bar
Water vapour transmission 23 °C 85 % RH	EN ISO 15106-3:2003	0,5	g / m <sup>2</sup> · 24h · bar
Dirt / Black points	Detector / visual (Black points shall not lead to thermoforming issues)	≥0,20 - ≤1 mm <sup>2</sup> - max 8; >1 mm <sup>2</sup> - max 1	n / 10 m <sup>2</sup>
Fish eyes	Detector / visual (Fish eyes shall not lead to thermoforming issues)	<1 mm <sup>2</sup> - allowed; ≥1 - ≤3 mm <sup>2</sup> - max 30; >3 mm <sup>2</sup> - max 2	n / 10 m <sup>2</sup>
Flies and insects	Detector / visual	none	
Pinnholes	Visual	none	
Deep Thermoforming		Suitable	
Thermoforming Temperature		≥ 120	°C
Barrier characteristics		Good	
Application temperature		Min. -35, Max. +70	°C
Colouring		Possible	

# Color Chart of Products







# Pars complex

[www.Parscomplex.com](http://www.Parscomplex.com)

Factory: Delijan, Isfahan Road Industrial Town, North Sanatgaran St., corner of the second park

