

# SASA

Yesterday • Today • Tomorrow • Forever



## Our Vision

As the first and largest polyester & polymer manufacturer of Türkiye, and the leader of the Europe, Middle East and Africa region; with a sustainable growth perspective, **SASA** aims to make Türkiye one of the top three polyester manufacturers in the world and to become one of the leading players on a global scale, together with its petrochemical investments.

## Our Mission

- To ensure sustainable growth
- To create value for all our stakeholders, especially our employees, suppliers, customers, shareholders and society
- To share this value fairly with all our shareholders in line with corporate and social responsibility principles
- To develop ourselves continuously by maintaining the spirit of innovation.

# Company Profile

**SASA** Polyester Sanayi A.Ş. is a leading producer in the world for polyester staple fibers, filament POY and yarns, polyester - based specialty polymers and PET Chips(textile, film and bottle grade).

Combining and blending a leadership responsibility in industry with a powerful technical inheritance and a high production capacity, **SASA** successfully manages the whole process from design to production and distribution.

Since its establishment in 1966, **SASA** has been one of the pioneer corporations in its field, demonstrating rapid growth thanks to incessant investments.

As **SASA**, we not only adopt a sustainable growth approach that does not ignore the future generations and meet today's needs with increasing world population and demands but we also look for informed consumption methods and alternative resources to preserve natural resources. We are aware of our responsibilities to stand against global problems such as climate change, poverty, hunger, inequalities, water scarcity, loss of biodiversity and to contribute to UN Sustainable Development Goals. With our investments, we prioritize encouraging sustainable development in our operations.



## Our Values and Principles

The core guiding values adopted by SASA with the principle of working in compliance with local and global ethical values are as follows:

- Not discriminating against any race, ethnicity, language, religion, opinion or gender
- Respecting fundamental human rights, children's rights, animal rights and not engaging with parties known to violate these rights
- Serving the society with corporate citizenship awareness
- Observing environmental sustainability in all fields of activity and increasing the environmental responsibility awareness of its stakeholders
- Using environmentally friendly technologies, supporting their development and dissemination
- Creating the highest value for employees, suppliers, customers, shareholders and society
- Operating with the highest security

## Certificates

ISO 9001 : 2015  
ISO 14001 : 2015  
ISO 27001 : 2013  
ISO 50001 : 2018  
ISO 45001 : 2018  
Oeko Tex Standard 100

Within the scope of this approach, SPP (Solar Energy System) is being installed on the roofs of our buildings in the central area of Adana, which will generate 28,000 MWh of energy annually and was commissioned in 2023.

Having Dynamit Nobel, ICI, Dupont, Uhde Inventa-Fischer (UIF), Oerlikon Barmag, AC Automation ve INVISTA P8 technologies in its knowhow database, **SASA** has a robust technical infrastructure thanks to its leading production plants with high capacities, its qualified employees of over 5.000 people and its Research and Development Center established in 2002.

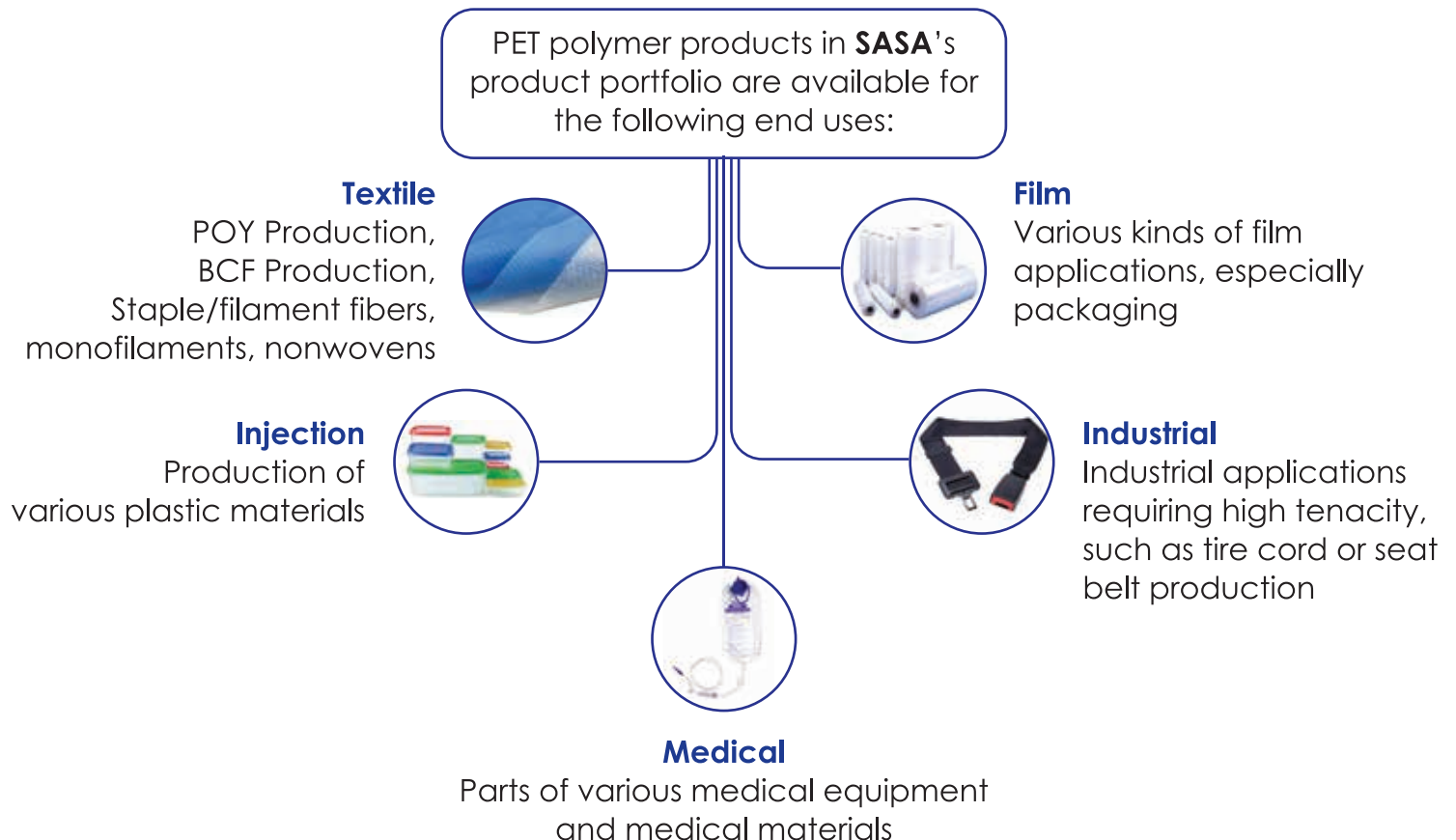
**SASA's** main production facility is located in Adana and established on a field of 2.181. 000 square meters. It has its own raw material storage facility in Iskenderun and liaison offices in Ankara and Istanbul. With the capacities of its facilities, 510.000 Tons/year fiber, 397.000 Tons/year POY, 178.000 Tons/year DTY, 548.500 Tons/year Polyester Chips and 24.000 Tons/year SSP Chips, **SASA** is a global player in its field.

Petrochemical investment of approximately 20 billion dollars is planned in the Yumurtalık district of Adana, and we are working closely with the Ministry of Industry and Technology to declare the land to be named as "**SASA** Special Industrial Zone". Within the scope of this project, materials such as Polypropylene (PP), Polyethylene (PE), Polyvinyl Chloride (PVC), PTA, MEG, Ammonia, Urea Fertilizer and Super Absorbent Polyester (SAP) products will be produced.

# Specialty Polymers and Chemicals

## PET Chips

**SASA's** base product is Polyethylene Terephthalate (PET) polymer. PET is a polymeric material formed by the inter-reaction of Purified Terephthalic Acid (PTA) with Monoethylene Glycol (MEG).



**SASA's** product portfolio includes PET chips for textile and film end-uses.

**Textile Grade Chips**

Both semi-dull and super-bright chips with IV values ranging from 0.420 to 0.900 (dL/g), are produced as textile grade chips. Due to the production technology (MTR) super-bright chips are crystalline and are of spherical shape. Semi-dull chips, on the other hand, are amorphous and are of cylindrical shape.

Titan Dioxide is used as delustrant in semi-dull chips.

**Film Grade Chips**

PET chips used in BOPET and cast film processes are produced for the packaging industry. PET Chips, that are suitable for cast film processes are used in production of sheets for thermoforming. The conductivity level can be adjusted with a pinning agent in PET chips that are produced for BOPET applications.

In addition to products containing anti-blocking agent, **SASA's** portfolio also includes film grade chips containing Barium Sulphate (BaSO<sub>4</sub>) used in opaque film production.

**SASA** also produces Sb-free products suitable for all kinds of end-uses.

**Textile and Film Grade Chips Specification**

PROPERTIES	UNIT	MIN.	MAX.
Intrinsic Viscosity	dL/g	0.420	0.860
TiO2 Range	%	0	0.6
DEG Range	%	0.6	1.5
CEG Range	eq/ton	15	35
Chips Size Range	g/100 Chips	1.6	4.5

\*It is possible to produce high IV products, such as 0.9 dL/g IV with the existing SSP equipment.

**Spherical Chips**



**Cylindrical Chips**



# PET Resin

PET resin is a polymer produced from the raw materials Purified Terephthalic Acid (PTA), Isophthalic Acid (IPA) and Ethylene Glycol (EG) using a melt polycondensation process.

**SASA** produces PET resin product group in its new MTR (Melt to Resin) plant which was commissioned in 2020 and has a capacity of 350 kt/year. With the help of MTR technology, desired high viscosity of bottle-grade chips can be achieved through one-step process unlike the conventional two-step method.

PET Resin is mainly used in PET sheet production and PET Preform which is used for bottle and jar end products in different sectors such as food, cosmetics. PET sheet is used within various industries, such as food and packaging industries.

## Products

- SASA™ PET BG – 76
- SASA™ PET BG – 80
- SASA™ PET BG – 84



## Main Areas of Application

- Water bottle
- Mineral water bottle
- Carbonated soft drinks bottle
- PET sheet





## Resin Chips Specification

PROPERTIES	UNIT	SPECIFICATION	TEST METHOD
Intrinsic Viscosity	dL/g	0.76 / 0.80 / 0.84	ASTM D4603
Colour	L*	Min. 80	ASTM E-313
	b*	Max. 1	ASTM E-313
Melting Point	°C	248 ± 3	ASTM D3418
Acetaldehyde	ppm	Max. 1	ASTM F-2013
Moisture Content	%	Max. 0.2	ASTM D6980-4
Chips Size	g/100 Chips	1.60 ± 0.20	Internal Gravimetric Method

## Advantages

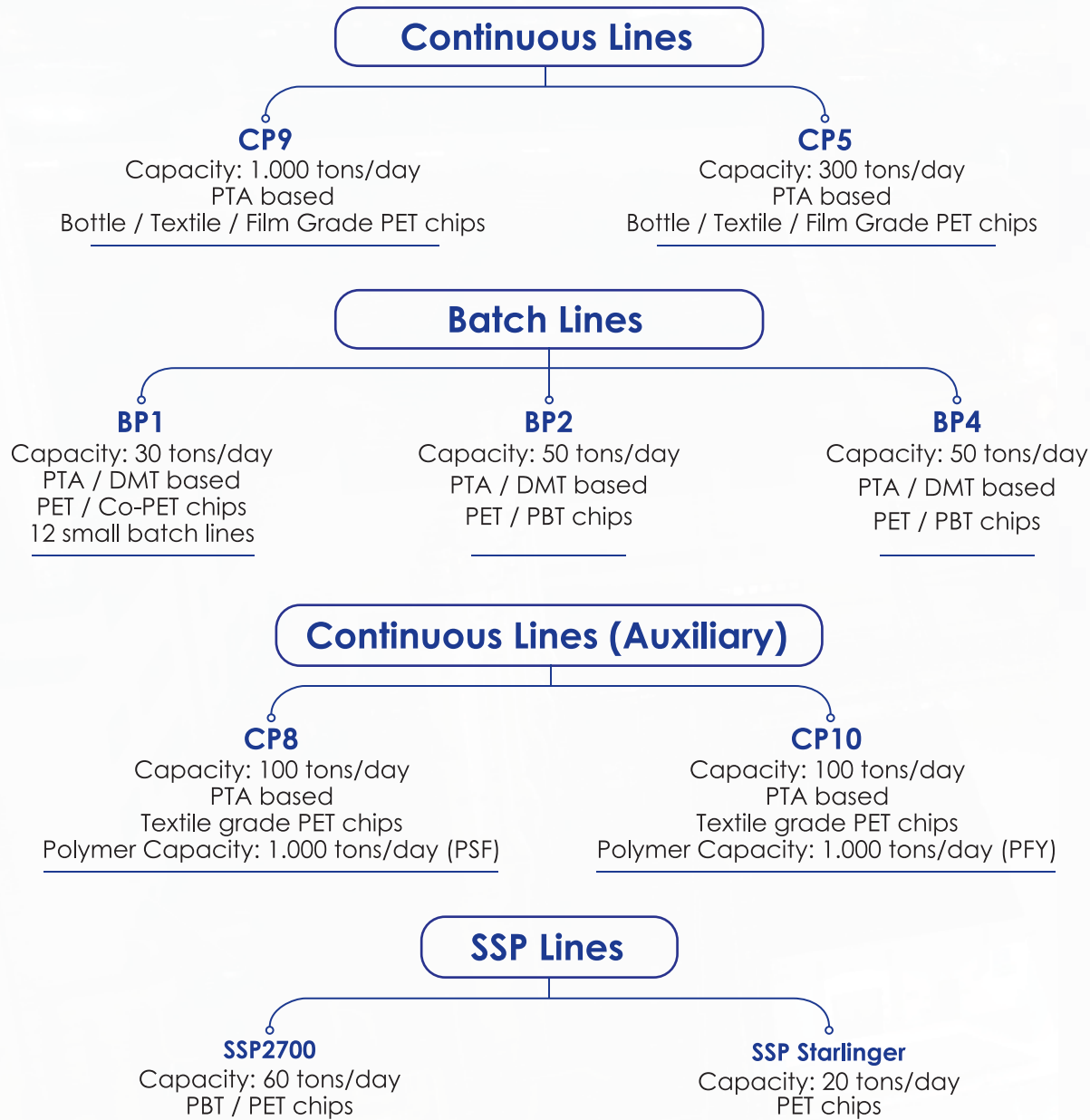
**SASA** PET Resin is a high-performing, user-friendly product thanks to its MTR (Melt to Resin) production technology. The chips are generated in the underwater die-face system gains a spherical form. This spherical form offers customers a variety of benefits as:

- Lower energy consumption
- Lower dust content, high extruder performance
- Homogeneous IV distribution in chips (shell and core)
- Lower dust formation with the help of better flow than cylindrical type
- Lower acetaldehyde formation



# Production Lines

**SASA** has both continuous and batch lines for PET chips and resin production. In addition to these **SASA** also has solid state polymerization (SSP) facilities where we can increase the IV value of the chips.







# Certificates and Documents

**Oeko Tex Standart 100**

**FSSC 22000**

**Declaration of Compliance for Food Contact**

**Declaration of Compliance for REACH**

## **REACH Regulation**

Our Polymer Chips products are produced in accordance with REACH regulation of the EU.

## **Allergen Test**

Our PET BG polymer products were undergone allergen tests in accordance with the Regulation (EU) No 1169/2011 of the European Parliament and of the Council and it was confirmed that our products do not contain any allergen.

## **Compliance for Food Contact**

We frequently take samples during production and test these samples in line with the GMP (Good Manufacturing Practices). The goal of these tests is to keep our quality at the highest standards and facilitate traceability. We retain all data obtained in accordance with the ISO standards.

## **FSSC 2200 Food Safety Certification**

The content of our food contact products meets human health and food safety requirements in compliance with national and international standards.

# Staple Fiber

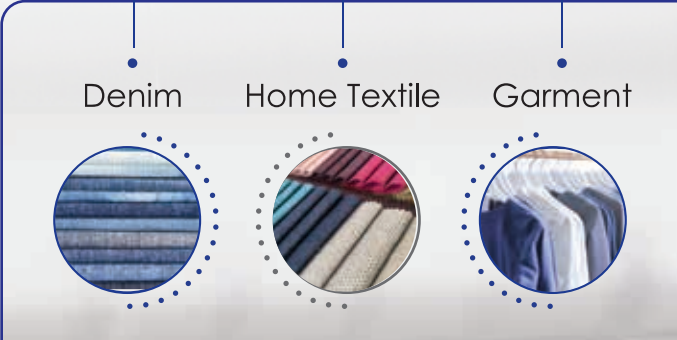
## What are the advantages of SASA Apparel Fibers?

- High production uptime with low defect levels
- Excellent dyeing performance with less energy and less water
- **SASA** technical expertise to help you create tailor made solutions
- Just in time delivery

## Features:

- Easy to blend with natural fiber
- Deep black
- Soft touch feeling
- Color stability
- High tenacity

## Applications:



Type	Denier	Lenght (mm)
Raw White SD	0.9/1.2/1.4/3	25/38
SASA Black	1.4/3	32/38
SASA Black MB	1.2/1.4	32/38
Colored	1.5/3	38
OB	1.2/1.4	38

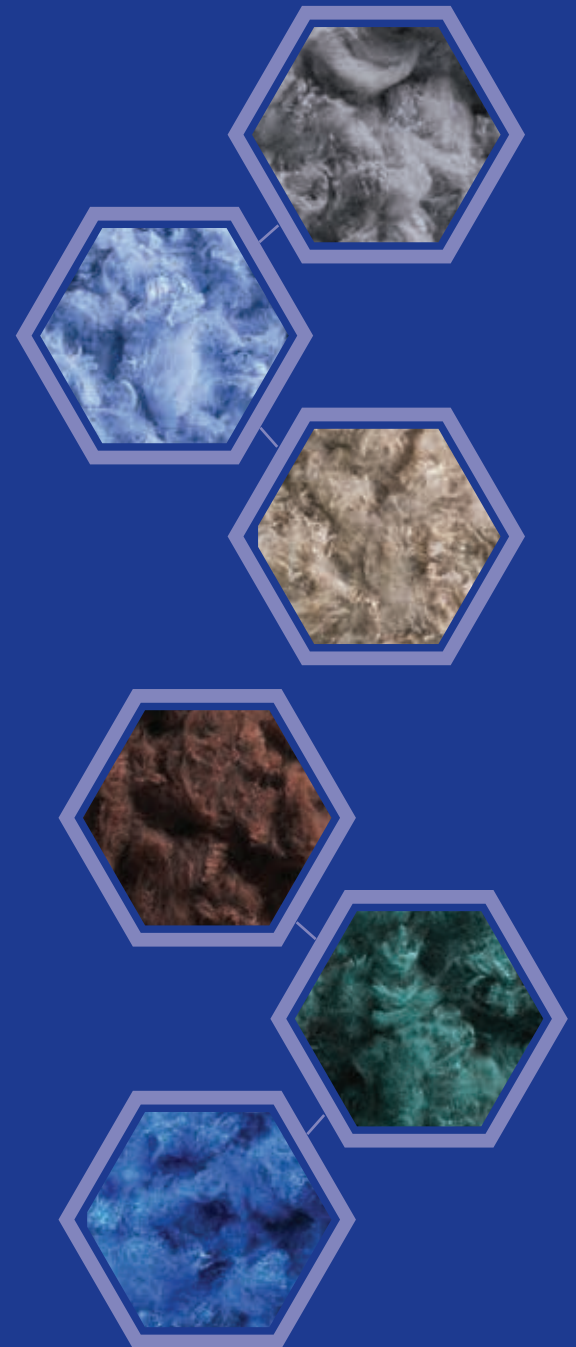
## SASA Apparel Staple Fibers give you a variety of value-added solutions.

Polyester is predominant preferred fabric of choice for today consumers with active lifestyles who demand lightweight, wrinkle-free and stain-resistant clothing.

Fast fashion and active wear are the principal drivers of the global demand for polyester fabrics, and also it is hugely successful because it places designer-type clothing within reach of the mass market quickly and at affordable prices.

**SASA** White  
**SASA** Black  
**SASA** Black MB  
**SASA** Colored  
**SASA** OB

## APPAREL FIBERS





## What are the advantages of SASA Technical Textile Fibers?

- High production performance with less water consumption and lower foaming on hydroentanglement process
- Low shrinkage in high-temperature process
- Internationally-certified
- Cost-effective solutions
- Excellent processability at high speeds
- Just in time delivery

Type	Denier	Lenght (mm)
Medical Care	1.5/3	38/51/60
Filtration	1.4/1.5/3/6	38/51/60
Geotextile	1.5/4/6	38/60/76
Hygiene	0.9/1.2/1.4/1.5	38/51
ADL (Solid/H/HC)	6/7	60
Food Contact	1.4	38
<b>SASA</b> Black	1.5/3/6	38/51/60

## Features:

- Light weight products
- Durabilitiy
- Soft touch
- Hydrophilic
- Hydrophobicity
- High thermal resistance
- High tenacity
- Food contact

## Applications:

- Hygiene and personal care



- Filtration



- Medical textile



- Automotive



- Geotextile



- Construction and infrastructure



**SASA provides a broad range of technical textile staple fibers in varying deniers and millimeters, from fine 0.9 denier to 15 denier from 22mm to 150mm, to meet the exacting demands of our customers.**

**SASA** collaborates with our customers and leading technologies to develop effective and safe technical textile solutions for industry-specific challenges. We work with a variety of industries ranging from healthcare to geotextile.

For the food, medical and health industries, we are at the cutting-edge of technical textile solutions to meet the surging demand for effective hygiene and medical textiles that's coming from emerging markets and aging populations in developed countries.

With its renewed technological infrastructure, **SASA** has stepped into Industry 4.0. With the newly opened staple fiber facility, the technology brought by Industry 4.0 has become one of the important milestones of the company. Along with the changes made to the packaging unit, **SASA** has succeeded in surpassing hygiene standards.

## TECHNICAL TEXTILE FIBERS



## What are the advantages of SASA Home Textile Fibers?

- Just in time delivery
- Affordable solutions for your end users
- Environment-friendly products with less water consumption and easy dry compared to natural fiber
- Carefree home textile for today's consumers active lifestyles

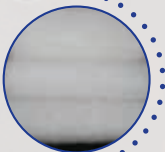
Type	Denier	Lenght (mm)
HC FR	7/15	32/64
HCS	7/15	32/64
HC	7/15	64
FR	7/15	32/64
Solid	6	60
Micro	1.2	38/64
Carpet Type	6	150
Hollow	6/15	55/64

## Features:

- Soft&Light
- Durable
- Silk touch
- Combines with natural fiber
- High bulkiness
- Long-lasting resilience
- Springy effect by 3D crimping
- Easily washed to kill house mites and allergens, quick drying
- High washing fastness

## Applications:

• Padding



• Carpets



Filling:

- Bedding  
Pillows  
Quilts  
Other furniture parts  
Cushions  
Sofas  
Chairs  
Toys





## HOME TEXTILE FIBERS

**SASA, is the leading virgin conjugated staple fiber producer in Europe. We can satisfy your needs for high quality polyester staple fiber across a wide range of home textile product end uses and applications.**

Fiberfill type fibers are **SASA's** winning solutions, specially-formulated to satisfy your hollow conjugated polyester fiber requirements. With **SASA** PSF, you have flexibility to choose the fiber formulation best-suited for your product specifications.

Our portfolio includes:

- SASA** HC FR
- SASA** HC
- SASA** HCS
- SASA** Solid
- SASA** Micro
- SASA** Carpet type
- SASA** Flame Retardant\*



\* BS5852 Part2

# Filament

**SASA** is one of the world's largest integrated manufacturer with its fully automated POY and DTY production plant in every step of process including doffing, inspection, sorting and packaging.

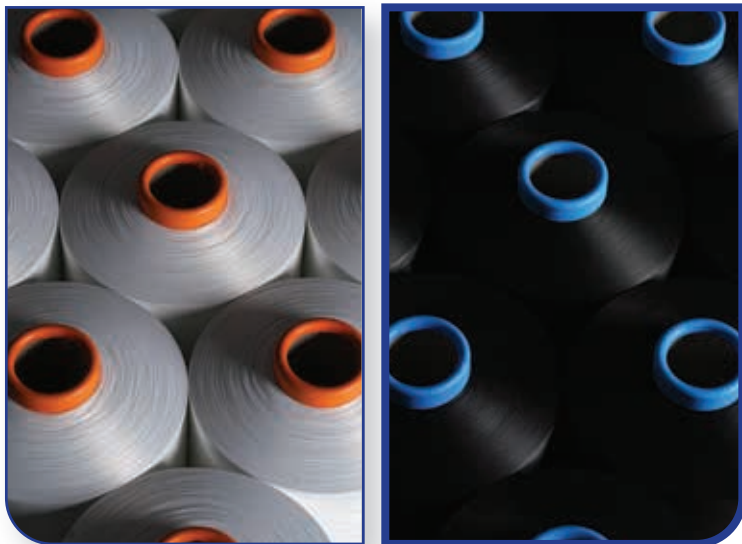
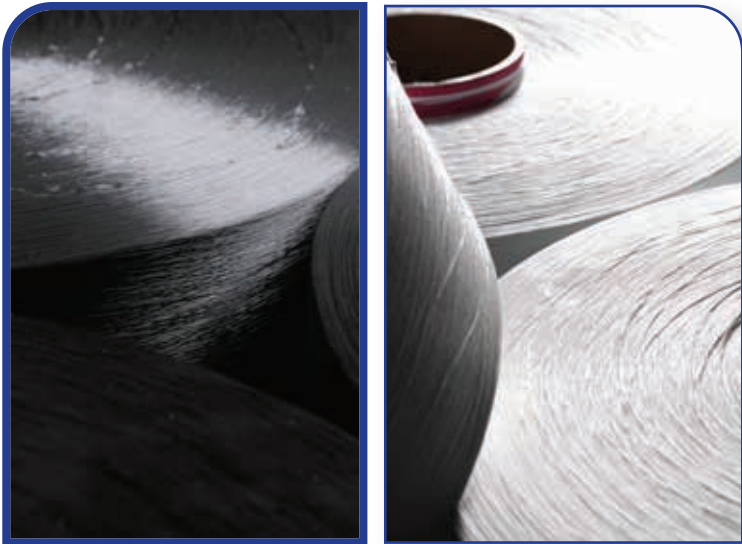
**SASA** POY products are produced at various state-of-the-art plants using leading process technologies like Uhde Inventa-Fischer (UIF), Oerlikon Barmag and AC Automation with Industry 4.0 to meet customer satisfaction.

**SASA** focuses on the production high quality, low conversion cost with its intelligent manufacturing facility.

**SASA** offers to Türkiye and Export market both POY (Partially Oriented Yarn) and DTY (Drawn Textured Yarn). Polyester Partially Oriented Yarn, commonly known as Polyester POY is the primary form of Polyester yarn. It is the first form of yarn made directly from PTA & MEG. POY is mainly used in texturizing to make yarn, also known as Polyester Drawn Textured Yarn (DTY).



**SASA**, aims to distinguish itself from its competitors by providing a responsive and high-quality customer service, shorter leadtime and high production performance for its customers.



### SASA POY Products

Lustre	Cross Section	Denier
Raw White SD	Round	50-450
Dope Dyed Black SD	Round	50-300
SD TRL	Trilobal	150-300

### SASA DTY Products

Lustre	Cross Section	Denier	Ply	Type
Raw White SD	Round	50-450	1-2-3-4	NIM-SIM-HIM
Dope Dyed Black SD	Round	50-300		NIM-SIM-HIM
SD TRL	Trilobal	150-300		NIM-SIM-HIM





# Drawn Texturized Yarn (DTY)

In 2020, **SASA** started the operation of its Textured Filament plant, which has a production capacity of 178.000 tons per year.

Drawn Texturized Yarn (DTY) yarn is obtained when Polyester POY is simultaneously twisted & drawn. DTY yarn is mainly used in weaving & knitting of fabrics for making clothes, home furnishings, seat covers, bags and many other uses.

Texturized Yarns are similar to natural fibers such as cotton, wool and linen by their appearance and properties. However they are used to add superior properties to the final product.





**SASA** offers to its consumers, semi-dull ecru and black yarns with excellent dyeability and color fastness. Product range includes low-medium-strong intermingle and plied Yarns (x2, x3, x4) depending on consumer demand.

Türkiye ranks among the biggest apparel and home-textile producers in the world. Due to the lack of facilities with sufficient production capacities, the need for raw materials in Türkiye had been supplied by imported goods until 2020, which marks the year when **SASA** commenced the operation of its initial POY and DTY lines. **SASA** intends to become one of the biggest polyester suppliers in the world.

## SASA Texturized Yarn

### DTY ECRU

50 Denier 36 Filaments NIM/SIM/HIM  
75 Denier 36 Filaments NIM/SIM/HIM  
100 Denier 36 Filaments NIM/SIM/HIM  
150 Denier 48 Filaments NIM/SIM/HIM  
300 Denier 96 Filaments NIM/SIM/HIM  
450 Denier 144 Filaments NIM/SIM/HIM

### DTY DOPE DYED BLACK

75 Denier 36 Filaments NIM/SIM/HIM  
100 Denier 36 Filaments NIM/SIM/HIM  
150 Denier 48 Filaments NIM/SIM/HIM  
150 Denier 144 Filaments SIM / HIM  
300 Denier 96 Filaments NIM/SIM/HIM

### DTY HIGH FILAMENT IMG

50 Denier 72 Filaments SIM / HIM  
75 Denier 72 Filaments SIM/HIM  
75 Denier 144 Filaments SIM/HIM  
100 Denier 96 Filaments SIM/HIM  
100 Denier 144 Filaments SIM/HIM  
150 Denier 96 Filaments SIM/HIM  
150 Denier 144 Filaments SIM/HIM  
150 Denier 288 Filaments SIM/HIM

### DTY PLIED IMG

2X150 Denier 288 Filaments SIM / HIM  
2X300 Denier 96 Filaments SIM / HIM  
2X400 Denier 144 Filaments SIM / HIM  
3X300 Denier 96 Filaments SIM / HIM  
4X300 Denier 96 Filaments SIM / HIM

# Partially Oriented Yarn (POY)

**SASA** POY have a semi-drawn, unfolded and untwisted structure that is not fully oriented and the product is rendered drawn and crimped by texturing. The DTY made at the end is softer, more flexible and has a higher heat retention ability compared to other yarns.

**SASA** POY is available as Semi Dull Raw White and Dope Dyed Black. POY Yarn through the texturizing or air texturizing is used for various end uses like home textile, apparel, denim & carpet.

**SASA** started the operation of its POY plant in 2020, which has a production capacity of 397.000 tons/year.

**SASA** intends to become the main supplier of POY and DTY for both the domestic market and the MENA region in general. The investments made by **SASA** will support the sustainable growth of the textile sector in both Türkiye and the MENA countries.



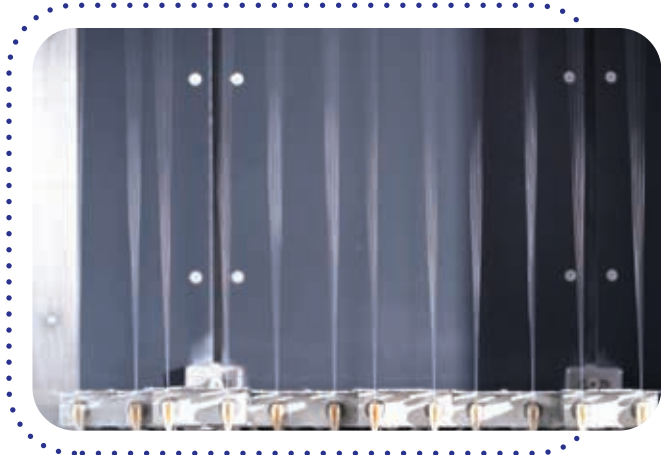


## Features

- Perfect dye take-up
- Color stability
- Semi dull trilobal
- Semi dull raw white
- Dope dyed black

## What are the advantages of SASA Filament Products?

- High production capacity
- Just in time delivery
- High efficiency
- Technical service
- Industry 4.0
- Solution oriented
- Reliable
- Competitive prices
- High customer satisfaction
- Internationally certified



## SASA POY

### POY SD ECRU

Final 50 Denier 36 Filaments  
Final 50 Denier 72 Filaments  
Final 75 Denier 36 Filaments  
Final 75 Denier 72 Filaments  
Final 75 Denier 144 Filaments  
Final 100 Denier 36 Filaments  
Final 100 Denier 96 Filaments  
Final 100 Denier 144 Filaments  
Final 150 Denier 48 Filaments  
Final 150 Denier 96 Filaments  
Final 150 Denier 144 Filaments  
Final 150 Denier 288 Filaments  
Final 300 Denier 96 Filaments  
Final 450 Denier 144 Filaments

### POY DOPE DYED BLACK

Final 75 Denier 36 Filaments  
Final 100 Denier 36 Filaments  
Final 150 Denier 48 Filaments  
Final 150 Denier 144 Filaments  
Final 300 Denier 96 Filaments

### POY SD TRL

Final 150 Denier 144 Filaments  
Final 200 Denier 144 Filaments  
Final 250 Denier 144 Filaments  
Final 300 Denier 144 Filaments

# Polyester Investments

**SASA** plans to commission its PET Chips (textile, film and bottle grade) production facility with an estimated investment cost of 150 million USD and a capacity of 330.000 tons/year in the third quarter of 2024. This investment is expected to contribute approximately 418 million USD/year to the turnover. The production facility is expected to provide an additional annual EBITDA of around 102 Million USD at todays' prices.

**SASA** plans to commission its Fiber production facility with an estimated investment cost of 330 million USD and a capacity of 367.500 tons/year in the third quarter of 2024. This investment is expected to contribute approximately 450 million USD/year to the turnover. The production facility is expected to provide an additional annual EBITDA of around 125 Million USD at todays' prices.

**SASA** has decided to invest in a POY production facility with an estimated investment cost of 400 million USD and a capacity of 350.000 tons/year, and the investment is expected to contribute approximately 525 million USD/year to the turnover.

**SASA** has decided to invest in a PET Chips (textile, film and bottle grade) production facility with an estimated investment cost of 150 million USD and a capacity of 350.000 tons/year, and the investment is expected to contribute approximately 500 million USD/year to the turnover.

# Petrochemical Investments

Continuing its investments with the rightful pride of starting out with its domestic and national target, **SASA** will commission its 1,75 million tons/year capacity in the second quarter of 2024, which will produce PTA, the main raw material of current production. It is expected that this capacity will provide an additional EBITDA of around USD 200-250 Million at today's prices.



# Green Investments

Reduction of carbon emissions, circular economy, responsible water consumption and energy efficiency in line with our Combating Climate Change and Sustainability Strategies we aim to be a pioneer in the industry with our green investments that will support our work.



## Rooftop Solar Power Plants (Completed)



Installed capacity of 16.4 MWdc

- 5% of the electrical energy need of our facilities is supplied from renewable energy sources through the Solar Power Plant



## Land Solar Investment (Ongoing)

- A total capacity of 200 MWdc
- Our first step is to locate 40,000 kWp power plants in Gaziantep in 2024
- Our goal is to increase the share of renewable energy we will use in our facilities to 50% by 2030



## PTA Production Facility (INVISTA P8) (Ongoing)



It will produce approximately 1.36 million GJ of electricity it needs with its off-gas system

- 75% less wastewater discharge
- 65% less greenhouse gas emissions
- 95% less solid waste generation



## New Advanced Biological Wastewater Treatment and Recovery Facilities (Ongoing)

- 55-60% water recovery will be achieved
- Hubgrade AI technology will be used in the facility
- Approximately 2,300 MWh/year will be saved in the amount of electricity consumption to be used for oxygen supply.





# SASA



**ERDEMOĞLU**  
**HOLDİNG**

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Sarıhamzalı Mah. Turhan Cermal Beriker Bulvanı No:559 01355 Seyhan / Adana  
Tel. : +90 322 441 00 53 - Fax : +90 322 441 01 14  
E-mail : [info@sasa.com.tr](mailto:info@sasa.com.tr) / web : [www.sasa.com.tr](http://www.sasa.com.tr)