FTK ROSTR

MANUFACTURER OF PP-B, PP-H,
PE-HD POLYMER SHEETS

FTK ROSTR is a Russian manufacturer of high-quality polymer sheets made of polyethylene and polypropylene

About the company

Team and experience

FTK ROSTR is a team of specialists with long-term expertise in polymer processing and extrusion, in-depth knowledge of technology, raw materials and production equipment.

Carefully selected equipment

Our in-house experience in plastic pipe extrusion, strong partnerships with European suppliers and a thorough study of the specifics of polymer sheet production have given us the the best knowledge for selection of a unique range of plastic sheet production equiment.

Special grade raw materials

Having access to an extensive range of high-quality raw materials and additives, we have carefully tested and selected special grades of PP-B, PP-H, PE-HD and dyes with specific parameters for production of our sheets.

Precise production recipes

Every step of the production process of each sheet type is fine-tuned according to carefully selected production recipe and a detailed process sheet with precise production parameters.

European quality standard

We set the benchmark for plastic sheet production technology in the Russian market, achieving quality excellence in accordance with European standards DIN EN ISO 14632, DIN EN ISO 15013. This has created opportunities for our products to be exported to the European Union.

In-house designed sheets for highly complex structures

One of FTK ROSTR's field of activities is the design and production of water treatment and purification plants and wastewater treatment systems. We are recognised as a reliable and trustworthy partner in this field.

The demand for high quality sheet with a defined set of properties and excellent weldability has led us to invest in our own plastic sheet production and to manufacture components for technically complex equipment and structures from our own sheet material.

FTK ROSTR

Production

High-tech modern equipment

Our factory is equipped with modern automated high output and accuracy extrusion lines to produce plastic sheets. The factory has been designed to meet European energy efficiency standards and combines the most advanced technologies available.

Perfected production process

All stages of the production are synchronised and perform cohesively and strictly according to the specified recipes. An integral part of the production process is the recording and monitoring of production process parameters for subsequent use in the quality management system.

High quality raw materials

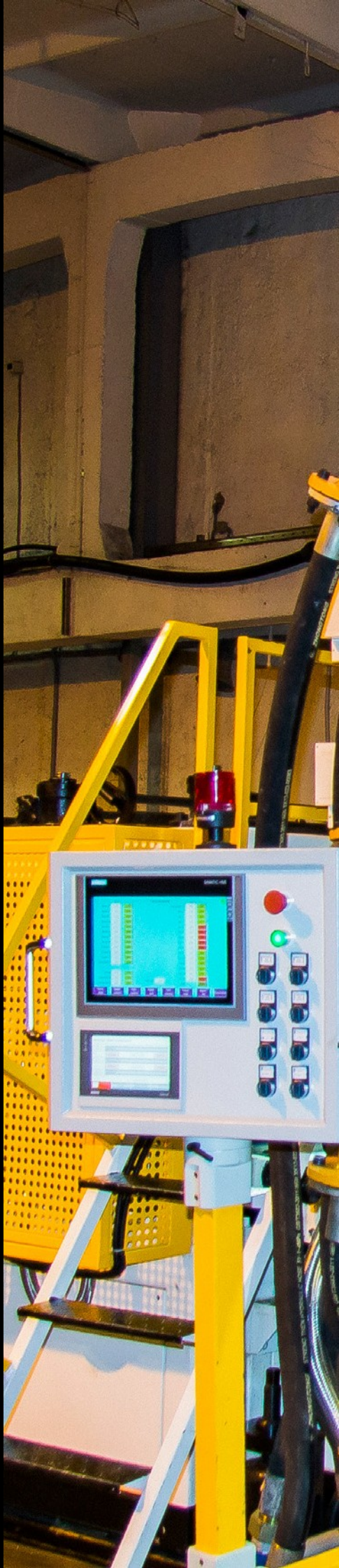
We strive for the impeccable quality of the products made from our sheet. Therefore, we never use secondary raw materials or low-quality additives. Our plastic sheets are produced exclusively from domestic and imported raw materials (primary polymer and dyes), which undergo mandatory quality control on arrival at our factory.

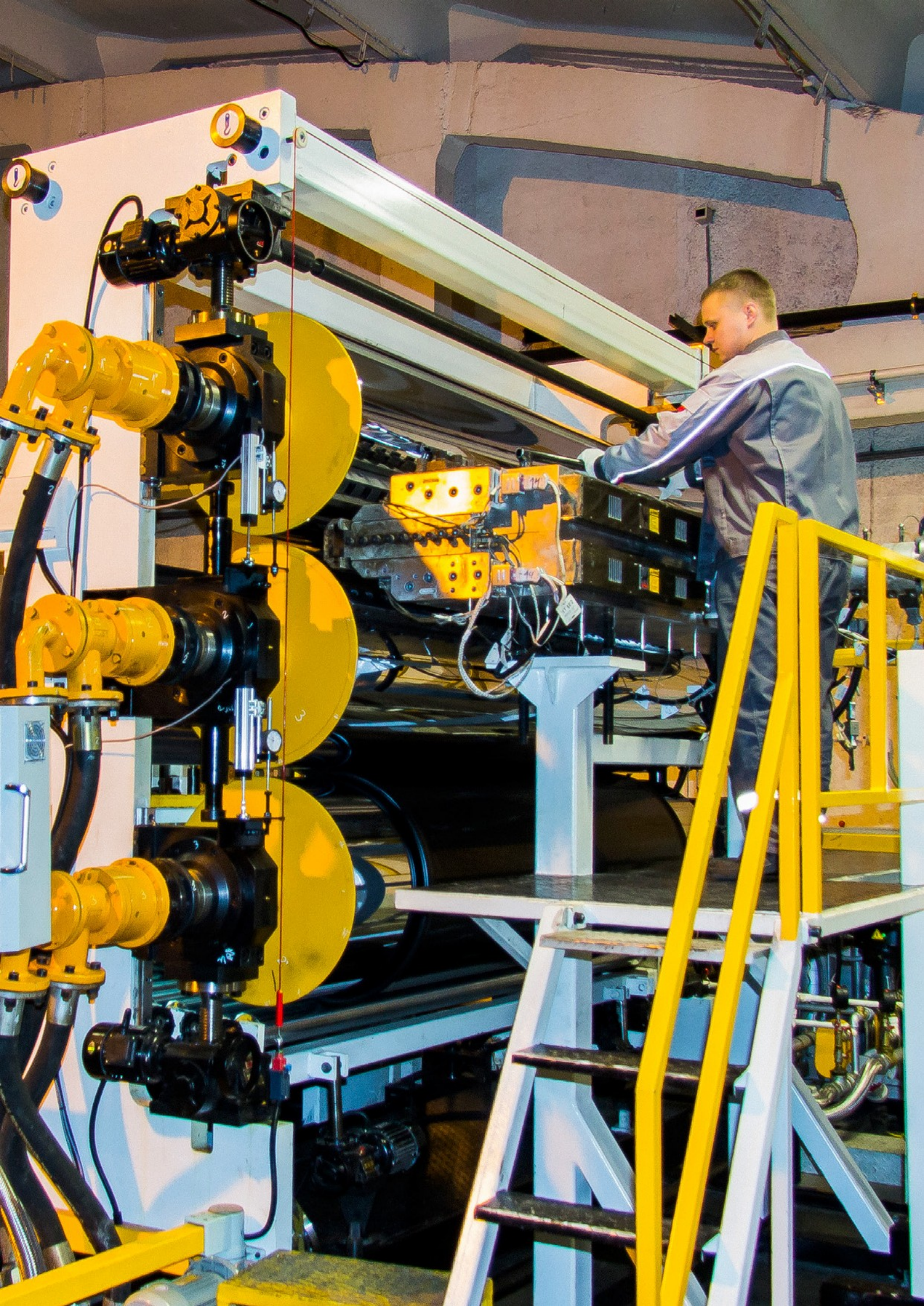
A multi-stage quality control system at all phases of the production cycle

Our quality control procedures include thorough testing of raw materials and additives on arrival, continuous monitoring of product dimensions and physical properties during production, operational control of compliance with regulations and standards provided in process documentation, testing of finished products for compliance with technical documentation, etc.

Consistent quality from batch to batch

Our products conformity to specified parameters is ensured by modern technical solutions, a continuous automated production process, high-quality raw materials, carefully selected production recipes, strict compliance with technology standards and a multi-stage quality control system.





Excellent quality of ROSTR® sheets

1) Homogenous smooth glossy surface

The surface of our products is even, smooth, without damage, nicks, bubbles, cracks, or visible foreign inclusions.

The glossiness is achieved by precise settings of production process parameters during sheet extrusion and the special grades of raw materials used.

2) Colour consistency

The precision of the gravimetric dosing system ensures the consistency of the distribution of colour within the extrudate. We use dyes with a lightfastness of 8.

3) UV protection

Our sheets do not degrade when exposed to UV light and retain their physical and mechanical properties (tensile and flexural strength, impact resistance, etc.) over a long period of time due to the high quality, correct dosage and dispersal of the additives used in the sheet extrusion process.

The use of low quality or secondary raw materials and unnecessary additives deteriorate polymer key parameters, such as strength and technological properties, thermal stability, UV-resistance, chemical resistance, etc. Such sheet does not meet the requirements of Russian Federal Service for Surveillance on Consumer Rights Protection and Human Wellbeing and cannot be used in contact with drinking water and food. Low quality sheet is more easily deformed, harder to work with, brittle, fragile and difficult to weld. Due to the presence of impurities some harmful substances may be emitted during the welding process.

4) Surface protection film

The protective film protects the product against mechanical damage. The film can be applied on one or both sides of the sheet.

5) 100% virgin raw materials and quality dyes

We use domestic and imported virgin raw materials and high-quality dyes with carefully selected characteristics to produce our sheets.

6) Consistent sheet geometry

Precisely calibrated technical equipment with correctly adjusted cooling mode and speed of the production process guarantees minimal deviation from nominal thickness, length, width and rectangularity tolerances.
The conformity of the finished products with the specified nominal parameters is checked in accordance with the regulations by the quality control department during the production.

7) Detailed product labelling

Each sheet is labelled with a detailed product information sticker with name of manufacturer, type of material used, dimensions, serial number, batch number, production date.

This provides necessary production information of each sheet for effective complaint handling.

8) Product certificate of quality

The certificate of quality is issued for each product batch and lists the actual values of the product parameters, states and guarantees their conformity with the requirements of technical documentation.

9) Sturdy packaging

The sheets are palletised, cushioned and sealed with a sturdy, thick protective film to ensure best protection against weathering and to keep them safe during transportation.

10) GOST R Declaration of Conformity

The quality of our sheets is confirmed by declarations of conformity registered in the GOST R system, issued by the Federal Agency for Technical Regulation and Metrology.

11) Recognised **high** quality

ROSTR® sheets comply with DIN EN ISO 14632 Extruded sheets of polyethylene (PE-HD) - Requirements and test methods, DIN EN ISO 15013 Plastics - Extruded Sheets of Polypropylene (PP) and are exported to the European Union.

12) Approved for contact with food and drinking water

Our sheets may be used for the manufacturing of products intended to be in contact with food, potable water and in domestic drinking water supply systems.
Polypropylene and polyethylene ROSTR® sheets meet the requirements of Chapter II of the Uniform Sanitary and Epidemiological and Hygienic Requirements for Goods Subject to Sanitary and Epidemiological Supervision (Control), approved by Decision of the Commission of the Customs Union No 299 of 28.05.2010 (Section 16 "Requirements for plastic materials and articles intended to come into contact with food and in food production" and 3 "Requirements for materials, reagents, equipment used for water treatment and water purification"), as verified by the Russian Federal Service for Surveillance on Consumer Rights Protection and Human Wellbeing conclusion No 2764.

13) Excellent weldability

Our sheets can be welded together by extrusion welding, heated plate welding, hot gas welding in accordance with DVS 2207–1, 3, 4, 11 "Welding of Thermoplastics. Extrusion welding of pipes, piping parts and panels. Processes and requirements" and GOST R 56155–2014 "Welding of polymeric materials. Extrusion welding of pipes, piping parts and panels". The excellent weldability of ROSTR® sheets and the consistency of welding mode parameters from batch to batch is ensured using carefully selected 100% pure raw materials without additives such as secondary materials, talc and chalk.

14) Smooth, robust and strong welded joint

Automatic machine welded joints of ROSTR® sheets show high tensile and flexural strength according to DVS 2203–1, 2, 4, 5 Prüfen von Schweißverbindungen an Tafeln und Rohren aus thermoplastischen Kunststoffen - Prüfverfahren - Anforderungen and GOST R 55142–2012 "Welded joints of thermoplastics sheets and pipes. Test methods".

15) Manufacturer's warranty

The warranty period for exploitation - 12 months from the sale date.
The warranty period for storage - 12 months from the shipment date.

Inspection checklist for plastic sheets:

- Inspection of product integrity.
- Verification of labelling and correct marking.
- Inspection of the quality of the packaging.
- Inspection of external appearance, shape and surface quality.
- Verfication of product dimensions.

Polyethylene polymer sheets ROSTR® PE-HD

DIN EN ISO 14632 Extruded Sheets of Polyethylene (PE-HD) — Requirements and test methods

Technical conditions (TU) 22.21.30-012-23151701-2019

Monolithic single-layer ROSTR® polyethylene sheet extruded from PE-HD with MRS class 100 is one of the basic construction materials with excellent performance characteristics and a wide range of applications.

Properties

Operating temperature

- Operating temperature range from -50°C to +80 °C.

Mechanical properties

- High tensile strength.
- High impact resistance.
- High flexibility.
- High flexural strength.
- High wear resistance.
- Abrasion resistance.
- High moisture resistance.
- Vapour impermeability.
- UV-resistance.

Biological neutrality

- Not susceptible to biological corrosion.
- Does not react to microorganisms.
- Non-toxic.
- Does not produce harmful fumes.
- Does not affect the organoleptic properties of water or food.
- Does not have negative effect on health, ability to work or life expectancy.
- Environmentally friendly in production, transport, installation and operation.

Electrical properties

- Electrical conductivity: good electrical insulation properties.

Chemical properties

- Chemical resistance: excellent chemical resistance to acids, alkalis, saline solutions, fats, mineral oils and vegetable oils at high temperatures.
- Good chemical resistance when in contact with detergents, cleaning agents and disinfectants.
- Excellent resistance to aggressive seawater environment.
- Absolute safety even in aggressive chemical environments, at high thermal, static and dynamic loads, under intense UV radiation.

Fire safety

- Flammability class - G4 according to GOST 30244.
- Ignitability class - B2 according to GOST 30402.
- Smoke-forming ability - D2 according to GOST 12.1.044.
- Explosion hazard code - T2 according to GOST 12.1.044.

High-tech processing

- Milling.
- Welding.
- Drilling.
- Sawing.
- Lathe machining.
- Connecting with bolts, rivets, couplers.
- Waterjet cutting.
- Cold bending.
- Die cutting.
- Thermoforming.

Applications

Production of water treatment and water purification plants, seawater desalination plants, wastewater treatment plants, manholes, septic tanks, etc.

Production of drinking water reservoirs.

Exhaust air purification systems and ventilation systems.

Construction of swimming pools, reservoirs and storage tanks.

Mechanical engineering and aircraft industry.

Manufacturing / lining of tanks and reservoirs for the chemical industry, food industry, animal farming and agriculture, fish farming, pharmaceutical and healthcare industries.

Steel galvanizing and pickling lines.

Production of equipment for aquaculture / fish farming.

Manufacture of household supplies.

Sporting equipment.

Standard product range

– available in stock

Polyethylene PE-HD

black with UV

Sheet size 1500x3000 mm. Without protective film lamination

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	12,96	17,28	21,60	25,92	34,56	43,20	51,84	64,80	86,40	108,00	129,60
Standard pallet load (pcs)	50	50	45	40	30	25	20	18	12	10	8

black with UV

Sheet size 2000x4000 mm. Without protective film lamination

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	23,04	30,72	38,40	46,08	61,44	76,80	92,16	115,20	153,60	192,00	230,40
Standard pallet load (pcs)	40	40	32	25	20	16	13	11	8	6	5

dark grey
with UV

Sheet size 1500x3000 mm. One-sided protective film lamination

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	12,96	17,28	21,60	25,92	34,56	43,20	51,84	64,80	86,40	108,00	129,60
Standard pallet load (pcs)	50	50	45	40	30	25	20	18	12	10	8

dark grey
with UV

Sheet size 2000x4000 mm. One-sided protective film lamination

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	23,04	30,72	38,40	46,08	61,44	76,80	92,16	115,20	153,60	192,00	230,40
Standard pallet load (pcs)	40	40	32	25	20	16	13	11	8	6	5

natural
w/o UV

Sheet size 1500x3000 mm. Without protective film lamination

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	12,96	17,28	21,60	25,92	34,56	43,20	51,84	64,80	86,40	108,00	129,60
Standard pallet load (pcs)	50	50	45	40	30	25	20	18	12	10	8

natural
w/o UV

Sheet size 2000x4000 mm. Without protective film lamination

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	23,04	30,72	38,40	46,08	61,44	76,80	92,16	115,20	153,60	192,00	230,40
Standard pallet load (pcs)	40	40	32	25	20	16	13	11	8	6	5

Polypropylene polymer sheets ROSTR® PP-B, PP-H

DIN EN ISO 15013 Plastics — Extruded Sheets of Polypropylene (PP)

Technical conditions (TU) 22.21.30-012-23151701-2019

Monolithic single-layer ROSTR® polypropylene sheet extruded from polypropylene block copolymer PP-B or polypropylene homopolymer PP-H, is one of the basic construction materials with excellent performance characteristics and a wide range of applications.

Properties

Operating temperature

- Operating temperature range from -20°C to +80 °C (PP-B); from 0°C to +100 °C (PP-H).

Mechanical properties

- High yield strength.
- High impact resistance.
- High stiffness.
- High flexural strength.
- High wear resistance.
- Abrasion resistance.
- High water impermeability.
- Vapour impermeability.
- UV-resistance.

Biological neutrality

- Not susceptible to biological corrosion.
- Not sensitive to microorganisms.
- Non-toxic.
- Does not produce harmful fumes.
- Does not affect the organoleptic properties of water or food.
- Does not have negative effect on health, ability to work or life expectancy.
- Environmentally friendly in production, transport, installation and operation.

Electrical properties

- Electrical conductivity: good electrical insulation properties.

Chemical properties

- Chemical resistance: resistant to most acids, alkalis and solvents.
- Good chemical resistance when in contact with detergents, cleaning agents and disinfectants.
- Excellent resistance to aggressive seawater environment.
- Absolute safety even in aggressive chemical environments, at high thermal, static and dynamic loads, under intense UV radiation.

Fire safety

- Flammability class - G4 according to GOST 30244.
- Ignitability class - B2 according to GOST 30402.
- Smoke-forming ability - D2 according to GOST 12.1.044.
- Explosion hazard code - T2 according to GOST 12.1.044.

High-tech processing

- Milling.
- Welding.
- Drilling.
- Sawing.
- Lathe machining.
- Connecting with bolts, rivets, couplers.
- Waterjet cutting.
- Cold bending.
- Die cutting.
- Thermoforming.

Applications

Production of water treatment and water purification plants, seawater desalination plants, wastewater treatment plants, manholes, septic tanks, etc.

Production of drinking water reservoirs.

Exhaust air purification systems and ventilation systems.

Construction of swimming pools, reservoirs and storage tanks.

Mechanical engineering and aircraft industry.

Manufacturing / lining of tanks and reservoirs for the chemical industry, food industry, animal farming and agriculture, fish farming, pharmaceutical and healthcare industries.

Steel galvanizing and pickling lines.

Production of equipment for aquaculture / fish farming.

Manufacture of household supplies.

As a casing and electrical insulation material.

Standard product range

– available in stock

Polypropylene Block Copolymer PP-B

grey w/o UV

Sheet size 1500x3000 mm. One-sided protective film lamination

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	12,42	16,56	20,70	24,84	33,12	41,40	49,68	62,10	82,80	103,50	124,20
Standard pallet load (pcs)	50	50	45	40	30	25	20	18	13	10	9

grey w/o UV

Sheet size 2000x4000 mm. One-sided protective film lamination

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	22,08	29,44	36,80	44,16	58,88	73,60	88,32	110,40	147,20	184,00	220,80
Standard pallet load (pcs)	40	40	32	25	20	16	13	11	8	6	5

dark grey with UV

Sheet size 1500x3000 mm. One-sided protective film lamination

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	12,42	16,56	20,70	24,84	33,12	41,40	49,68	62,10	82,80	103,50	124,20
Standard pallet load (pcs)	50	50	45	40	30	25	20	18	13	10	9

FTK ROSTR

Standard product range

– available in stock

Polypropylene Block Copolymer PP-B

natural w/o UV

Sheet size **1500x3000** mm. **One-sided protective film lamination**

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	12,42	16,56	20,70	24,84	33,12	41,40	49,68	62,10	82,80	103,50	124,20
Standard pallet load (pcs)	50	50	45	40	30	25	20	18	13	10	9

natural w/o UV

Sheet size **2000x4000** mm. **One-sided protective film lamination**

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	22,08	29,44	36,80	44,16	58,88	73,60	88,32	110,40	147,20	184,00	220,80
Standard pallet load (pcs)	40	40	32	25	20	16	13	11	8	6	5

white with UV

Sheet size **1500x3000** mm. **One-sided protective film lamination**

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	12,42	16,56	20,70	24,84	33,12	41,40	49,68	62,10	82,80	103,50	124,20
Standard pallet load (pcs)	50	50	45	40	30	25	20	18	13	10	9

white with UV

Sheet size **2000x4000** mm. **One-sided protective film lamination**

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	22,08	29,44	36,80	44,16	58,88	73,60	88,32	110,40	147,20	184,00	220,80
Standard pallet load (pcs)	40	40	32	25	20	16	13	11	8	6	5

light blue with UV

Sheet size **1500x3000** mm. **One-sided protective film lamination**

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	12,42	16,56	20,70	24,84	33,12	41,40	49,68	62,10	82,80	103,50	124,20
Standard pallet load (pcs)	50	50	45	40	30	25	20	18	13	10	9

light blue with UV

Sheet size **2000x4000** mm. **One-sided protective film lamination**

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	22,08	29,44	36,80	44,16	58,88	73,60	88,32	110,40	147,20	184,00	220,80
Standard pallet load (pcs)	40	40	32	25	20	16	13	11	8	6	5

light blue with UV

Sheet size **1500x4000** mm. **One-sided protective film lamination**

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	16,56	22,08	27,60	33,12	44,16	55,20	66,24	82,80	110,40	138,00	165,60
Standard pallet load (pcs)	50	40	32	25	20	16	13	11	8	6	5

Standard product range

– available in stock

Polypropylene Block Copolymer PP-B

blue with UV

Sheet size **1500x3000** mm**. One-sided protective film lamination**

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	12,42	16,56	20,70	24,84	33,12	41,40	49,68	62,10	82,80	103,50	124,20
Standard pallet load (pcs)	50	50	45	40	30	25	20	18	13	10	9

blue with UV

Sheet size **1500x4000** mm**. One-sided protective film lamination**

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	16,56	22,08	27,60	33,12	44,16	55,20	66,24	82,80	110,40	138,00	165,60
Standard pallet load (pcs)	50	40	32	25	20	16	13	11	8	6	5

green with UV

Sheet size **1500x3000** mm**. One-sided protective film lamination**

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	12,42	16,56	20,70	24,84	33,12	41,40	49,68	62,10	82,80	103,50	124,20
Standard pallet load (pcs)	50	50	45	40	30	25	20	18	13	10	9

green with UV

Sheet size **2000x3000** mm**. One-sided protective film lamination**

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	16,56	22,08	27,60	33,12	44,16	55,20	66,24	82,80	110,40	138,00	165,60
Standard pallet load (pcs)	50	50	45	40	25	25	20	18	12	10	8

Standard product range

– available in stock

Polypropylene Homopolymer PP-H

grey w/o UV

Sheet size 1500x3000 mm. One-sided protective film lamination

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	12,42	16,56	20,70	24,84	33,12	41,40	49,68	62,10	82,80	103,50	124,20
Standard pallet load (pcs)	50	50	45	40	30	25	20	18	13	10	9

grey w/o UV

Sheet size 2000x4000 mm. One-sided protective film lamination

Sheet thickness (mm)	3	4	5	6	8	10	12	15	20	25	30
Sheet weight (kg)	22,08	29,44	36,80	44,16	58,88	73,60	88,32	110,40	147,20	184,00	220,80
Standard pallet load (pcs)	40	40	32	25	20	16	13	11	8	6	5

Customise your sheet!

In addition to our standard products, we accept orders for the production of sheets of non-standard colours and sizes.

Please feel free to contact us for any inquiries about a non-standard sheet production!

Custom order options

Product	monolithic single layer extruded sheet
Thickness	• PP-B / PP-H: 3-30 mm • PE-HD: 3-30 mm
Minimal order quantity	5 tons
Colour	any RAL colour
Sheet size	width up to 2000 mm, length selected according to application
UV stabiliser*	on request
Protective film lamination	• without film • one-sided lamination • double-sided lamination

* UV stabilisation is necessary if the finished products will be used outdoors, stored in open areas, or will be exposed to UV light.

Plastic products undergo degradation when exposed to UV rays and oxygen simultaneously, resulting in discolouration and loss of mechanical properties.

By using UV stabilisers, the physical and mechanical properties (impact strength, tensile and flexural modulus, etc.) and appearance of the product (colour, gloss) can be maintained.

Services

Sheet material processing services

We offer a wide range of professional plastic sheet processing services:

- sheet cutting;
- milling;
- welding;
- product manufacturing according to customers' sketches and drawings.

Our assembly department is equipped with modern production machinery:

- CNC milling machine;
- sliding table panel saw;
- automatic butt fusion machine, suitable for thermoplastic sheet welding;
- hand-held welding extruders with hot gas and welding rod temperature control.

Technical support

Due to our extensive knowledge of polymer processing specifics and long-term experience of our designers, project engineers and assembly department staff, we can provide technical support at the highest level.

- Design of PP-B, PP-H and PE-HD products and structures.
- Project calculations and design review.
- Information on material selection.
- Consultation on welding and milling processes.

Delivery across Russia and CIS

Fast order processing and fulfilment

Most popular colours and standard sizes
are always in stock!

ФТК РОСТР

MANUFACTURER
OF PP-B, PP-H, PE-HD POLYMER SHEETS

www.ftkrostr.ru

Production in St. Petersburg:
198517, St. Petersburg, Peterhof,
Noviye Zavodi str., 60-1-1,
ph.: +7 (812) 313-28-36

Warehouse in St. Petersburg:
198504, St. Petersburg, Peterhof,
Astronomicheskaya str. 8, bldg. 2

Sales Office in Moscow:
129626, Moscow,
Mira ave. 102, bldg. 25,
ph.: +7 (499) 110-87-21

Warehouse in Moscow:
141031, Moscow region, Mytishchi,
Ostashkovskoye hwy.,
property no 5, bldg. 1

Warenhouse and Sales Office in Yekaterinburg:
623105, Sverdlovsk region, Pervouralsk,
Burilshchikov Str., 27,
ph.: +7 (343) 288-58-12

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