



**General-purpose plastics**

Catalogue 2020

### High-impact polystyrene

<b>HIPS UV</b>	basic product
<b>HIPS HM</b>	improved opacity
<b>HIPS EM</b>	embossed
<b>HIPS UV+</b>	maximum UV-resistance
<b>HIPS IMP</b>	improved impact resistance
<b>HIPS Mirror</b>	laminated surface

### General purpose polystyrene

<b>GPPS UV</b>	basic product
<b>GPPS UV+</b>	maximum UV-resistance
<b>GPPS prism rhomb</b>	prism-rhomb embossed
<b>GPPS prism</b>	prism embossed

### Polymethyl methacrylate

<b>PMMA</b>	basic product
<b>PMMA prism</b>	prism embossed

### Polypropylene round rod

<b>Rod PP round</b>	basic product
---------------------	---------------

### Polypropylene

<b>PP</b>	basic product made of PP block polymer
<b>PP homo</b>	basic product made of PP homopolymer
<b>PP foamed</b>	foamed

### Acrylonitrile Butadiene Styrene

<b>ABS</b>	basic product
<b>ABS MT</b>	matte finish
<b>ABS GL</b>	glossy finish
<b>ABS EM</b>	embossed
<b>ABS UV</b>	maximum UV-resistance
<b>ABS IMP</b>	improved impact resistance

### Polyethylene terephthalate

<b>PET-A</b>	basic product
--------------	---------------

### Acrylonitrile Butadiene Styrene + Polymethyl methacrylate

<b>ABS+PMMA 5%</b>	acrylic layer thickness 5%
<b>ABS+PMMA 10%</b>	acrylic layer thickness 10%
<b>ABS+PMMA % EG</b>	high adhesion
<b>ABS+PMMA % UV</b>	UV-resistant
<b>ABS+PMMA EM</b>	embossed
<b>ABS+PMMA IMP</b>	improved impact resistance
<b>ABS+PMMA HM</b>	improved opacity

## HIPS

Colour	LT	Surface	Size, mm	Thickness, mm / Sheets per pallet									
Gebau HIPS - high-impact polystyrene				1	1.5	1.8	2	3	4	5	6	8	10
White 5001		gloss/matt	2000 x 3000	150	100	+	80	50	40	30	25	+	+
			1500 x 3000	200	+	+	+	+	+	+	+	+	+
White sanitary		gloss/matt	custom made	+	+	+	+	+	+	+	+	+	+
Opal 141	36%	gloss/matt	2000 x 3000	+	100	+	80	50	40	+	+	+	+
Opal 563	33%	gloss/matt	2000 x 3000	+	+	+	80	50	40	+	25	+	+
			1500 x 3000	200	+	+	+	+	+	+	+	+	+
Yellow 145	14%	gloss/matt	2000 x 3000	+	+	+	80	50	40	+	+	+	+
Yellow 208	10%	gloss/matt	2000 x 3000	+	+	+	80	50	40	+	+	+	+
Orange 137	3%	gloss/matt	2000 x 3000	+	+	+	80	50	+	+	+	+	+
Red 209	2%	gloss/matt	2000 x 3000	+	+	+	80	50	40	+	+	+	+
Red 272	2.6%	gloss/matt	2000 x 3000	+	+	+	80	50	40	+	+	+	+
Red 723	<1%	gloss/matt	2000 x 3000	+	+	+	80	50	+	+	+	+	+
Green 182	<1%	gloss/matt	2000 x 3000	+	+	+	80	50	40	+	+	+	+
Green 226	<1%	gloss/matt	2000 x 3000	+	+	+	80	50	+	+	+	+	+

+ Can be custom made. Check production conditions

\* Other colours, thicknesses, formats, matte coating, protective film on one or both sides and corona treating are possible

\* LT values are for 3mm thickness

## HIPS

Colour	LT	Surface	Size, mm	Thickness, mm / Sheets per pallet									
				1	1.5	1.8	2	3	4	5	6	8	10
<b>Gebau HIPS - high-impact polystyrene</b>				1	1.5	1.8	2	3	4	5	6	8	10
Green 275	<1%	gloss/matt	2000 x 3000	+	+	+	+	+	+	+	+	+	+
Light Blue 245	<1%	gloss/matt	2000 x 3000	+	+	+	80	50	+	+	+	+	+
Light Blue 300	<1%	gloss/matt	2000 x 3000	+	+	+	80	50	+	+	+	+	+
Blue 228	<1%	gloss/matt	2000 x 3000	+	+	+	80	50	40	+	+	+	+
Blue 306	0%	gloss/matt	2000 x 3000	+	+	+	80	50	40	+	+	+	+
Grey 535	<1%	gloss/matt	2000 x 3000	+	+	+	80	50	40	+	+	+	+
Metallic grey 520	0%	gloss/matt	2000 x 3000	+	+	+	80	50	40	+	+	+	+
			1500 x 3000	100	+	+	+	+	+	+	+	+	+
Brown 218	0%	gloss/matt	2000 x 3000	+	+	+	80	50	+	+	+	+	+
Brown 469	0%	gloss/matt	2000 x 3000	+	+	+	80	50	+	+	+	+	+
Black 640	0%	gloss/matt	2000 x 3000	150	100	90	80	50	40	30	25	+	+
			1500 x 3000	200	+	+	+	+	+	+	+	+	+

+ Can be custom made. Check production conditions

\* Other colours, thicknesses, formats, matte coating, protective film on one or both sides and corona treating are possible

\* LT values are for 3mm thickness

### Modifications as per your requirement:

EM	embossed
UV	UV-modified
HM	improved opacity
Mir	laminated
IMP	high impact resistance

## HIPS

Colour	Basis	Size, mm	Thickness, mm / Sheets per pallet								
Gebau HIPS Mirror - laminated			0.7	1	1.5	2	4	5	6	8	10
Mirrored Silver	Black	2000 x 1000		100	+	100					
	White	2000 x 1000		+	+	+					
Mirrored Gold	Black	2000 x 1000		100	+	100					
	White	2000 x 1000		+	+	+					

+ Can be custom made. Check production conditions

## GPPS

Colour	LT	Surface	Size, mm	Thickness, mm / Sheets per pallet							
<b>Gebau GPPS - general purpose polystyrene</b>				<b>1.5</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>
Transparent	90%	gloss	2000 x 3000		80	50	40	30	25	20	15
Opal 701	68%	68% LT, all thicknesses	1800 x 1200	+	+						
			2000 x 3000	+	+						
<b>Gebau GPPS - embossed</b>				<b>1.9</b>	<b>2.8</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	
Transparent		Prism	1800 x 1200	+	+	+	+	+	+	+	+
			2000 x 3000	+	+	+	+	+	+	+	+
		Prism rhomb	1800 x 1200	+	+	+	+	+	+	+	+
			2000 x 3000	+	+	+	+	+	+	+	+

+ Can be custom made. Check production conditions

\* Other colours, thicknesses, formats, protective film on one or both sides and corona treating are possible

\* LT values are for 3mm thickness

All standard GPPS sheets are UV stabilized but for indoor use only

\* UV + - higher UV-resistance modification is possible

## ABS+PMMA

Colour	Surface	Size, mm	Thickness, mm / Sheets per pallet							
<b>Gebau ABS+PMMA 5%</b>			<b>1</b>	<b>1.5</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>
White	gloss	custom made	+	+	+	+	+	+	+	+
Any Colour	gloss	custom made	+	+	+	+	+	+	+	+
<b>Gebau ABS+PMMA 10%</b>			<b>1</b>	<b>1.5</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>
Transparent	gloss	custom made	+	+	+	+	+	+	+	+
Any Colour	gloss	custom made	+	+	+	+	+	+	+	+

+ Can be custom made. Check production conditions

\* Other colours, thicknesses, formats, protective film on one or both sides and corona treating are possible and corona treating are possible

### Modifications as per your requirement:

<b>%</b>	another layer thickness
<b>EG</b>	higher adhesion
<b>UV</b>	UV-modified
<b>EM</b>	embossed
<b>IMP</b>	high impact resistance
<b>HM</b>	high coverage

## ABS

Colour		Surface	Size, mm	Thickness, mm / Sheets per pallet							
<b>Gebau ABS - Acrylonitrile Butadiene Styrene</b>				<b>1</b>	<b>1.5</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>
Any Colour	smooth	2000 x 3000	+	+	+	+	+	+	+	+	+
		1000 x 3000	+	+	+	+	+	+	+	+	+
	EM	1000 x 3000	+	+	+	+	+	+	+	+	+
Black 640	EM	1000 x 3000	+	+	150	100	75	+	+	+	
Grey 130	EM	1000 x 3000	+	+	150	100	75	+	+	+	
Grey 535	EM	1000 x 3000	+	+	150	100	75	+	+	+	
<b>Gebau ABS matt - matte surface</b>				<b>1</b>	<b>1.5</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>
Any Colour	matt	2000 x 3000	+	+	+	+	+	+	+	+	+
		1000 x 3000	+	+	+	+	+	+	+	+	+
<b>Gebau ABS gloss - glossy surface</b>				<b>1</b>	<b>1.5</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>
Any Colour	gloss	2000 x 3000	+	+	+	+	+	+	+	+	+
		1000 x 3000	+	+	+	+	+	+	+	+	+

+ Can be custom made. Check production conditions

\* Other colours, thicknesses, formats, protective film on one or both sides and corona treating are possible and corona treating are possible

Modifications as per your requirement:

<b>UV</b>	UV-modified
<b>EM</b>	embossed
<b>IMP</b>	high impact resistance



## PMMA

Colour	LT	Surface	Size, mm	Thickness, mm / Sheets per pallet											
<b>Gebau PMMA - extrusion acrylic</b>				<b>2</b>	<b>2.5</b>	<b>2.8</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>15</b>	<b>20</b>
Transparent	92%	gloss	2000 x 3000	+	+	+	+	+	+	+	+	+			
		prism	1790 x 1200			+	+								
		prism rhomb	1790 x 1200	+	+	+	+								

+ Can be custom made. Check production conditions

\* Other colours, thicknesses, formats, matte coatings, protective film on one or both sides and corona treating are possible and corona treating are possible

\* LT values are for 3mm thickness

## PP

Colour	Surface	Size, mm	Thickness, mm / Sheets per pallet								
Gebau PP - Polypropylene block polymer extrusion			3	4	5	6	8	10	12	15	20
Natural	smooth	2000 x 1000	+	+	+	+	+	+	+	+	+
		3000 x 1500	+	+	+	+	+	+	+	+	+
		4000 x 2000	+	+	+	+	+	+	+	+	+
Grey 7032	smooth	2000 x 1000	+	+	+	+	+	+	+	+	+
		3000 x 1500	+	+	+	+	+	+	+	+	+
		4000 x 2000	+	+	+	+	+	+	+	+	+
Green 6005	smooth	2000 x 1000	+	+	+	+	+	+	+	+	+
		3000 x 1500	+	+	+	+	+	+	+	+	+
		2000 x 1500	+	+	+	+	+	+	+	+	+

+ Can be custom made. Check production conditions

\* Other colours, thicknesses and formats are possible

Modifications as per your requirement:

UV  UV-resistant

## PP homo

Colour	Surface	Size, mm	Thickness, mm / Sheets per pallet								
<b>Gebau PP – polypropylene homopolymer extrusion</b>			<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>15</b>	<b>20</b>
Natural	smooth	2000 x 1000	+	+	+	+	+	+	+	+	+
		3000 x 1500	+	+	+	+	+	+	+	+	+
		4000 x 2000	+	+	+	+	+	+	+	+	+
Any Colour	smooth	2000 x 1000	+	+	+	+	+	+	+	+	+
		3000 x 1500	+	+	+	+	+	+	+	+	+
		4000 x 2000	+	+	+	+	+	+	+	+	+

- \* Can be custom made. Check production conditions
- \* Other colours, thicknesses and formats are possible

### Modifications as per your requirement:

**UV**  UV-resistant

## PP

Colour	Surface	Size, mm	Thickness, mm / Sheets per pallet				
<b>Gebau PP foamed – foamed polypropylene block polymer</b>			<b>8</b>	<b>10</b>	<b>12</b>	<b>15</b>	<b>20</b>
Natural	smooth	2000 x 1000	+	+	+	+	+
Green 6005	smooth	3000 x 1500	+	+	+	+	+
		4000 x 2000	+	+	+	+	+
Any Colour	smooth	2000 x 1000	+	+	+	+	+
		3000 x 1500	+	+	+	+	+
		2000 x 1500	+	+	+	+	+

+ Can be custom made. Check production conditions

\* Other colours, thicknesses, formats are possible

\* Sheets with protective film are possible

### Modifications as per your requirement:

**UV**  UV-resistant

## PET-A

Colour	Property	Size, mm	Thickness, mm / Sheets per pallet										
			0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.5	2	3
<b>Gebau PET-A - Polyethylene terephthalate</b>			0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.5	2	3
Transparent	gloss	2050 x 1250	250	+	500	+	300	+	+	200	150	100	+
		3050 x 2050								120	+	50	40

+ Can be custom made. Check production conditions

\* Other thicknesses and formats are possible

\* Sheets with protective film are possible

### Modifications as per your requirement:

UV  UV-resistant

## Rod PP round

Colour	Property	Winding	Weight, kg	
<b>Gebau Rod PP round</b>			<b>Hank – 5 kg</b>	<b>Coil – 7 kg</b>
Natural	Round	Hank, Coil	+	+
Grey 7032			+	+
Green 6005			+	+
Light Blue 541			+	+
Any Colour			+	+

+ Can be custom made. Check production conditions

\* Other colours, thicknesses and footage are possible

## Materials' physical properties

Property	Method	Unit	HIPS matt/matt	HIPS gloss/matt	GPPS	ABS	ABS/PMMA 5%	ABS/PMMA 10%	PET-A	PP	PP foam.	PMMA	
<b>GENERAL</b>													
density	ISO 1183	g/cm <sup>3</sup>	1.05	1.05	1.05	1.06	1.065*	1.070*	1.33	0.92	0.7	1.19	
<b>OPTIC</b>													
light transmission	ASTM D-1003	%	-	-	90	-	-	-	90	-	-	92	
<b>MECHANIC</b>													
flexural modulus	ISO 178	MPa	-	-	-	2100	2200	2300	-	-	-	-	
bending strength	ISO 178	MPa	-	-	103	-	-	-	-	-	-	-	
tensile modulus	ISO 527	MPa	1550	1650	3300	2150	2250	2350	2450	1200	950	3200	
breaking strength	ISO 527	MPa	22	24	55	43	44	45	60	24	16	76	
elongation at break	ISO 527	%	50	15	3	50	5	5	>100	>100	50	5.5	
<b>IMPACT STRENGTH</b>													
Charpy notched	ISO 179	kJ/m <sup>2</sup>	15	15	3	18	18	18	-	40	-	-	
Charpy without notch	ISO 179	kJ/m <sup>2</sup>	ND	-	<25	-	-	-	ND	ND	ND	<25	
<b>THERMAL</b>													
Vicat softening temperature VST/B/50	ISO 306	°C	87	92	101	102	103	103	75	-	-	103	
deflection temperature during heating (A 1.8 MPa)	ISO 75	°C	-	-	86	101	-	-	69	-	-	95	
flammability (d = 1.6 mm)	UL 94	class	HB	HB	HB	HB	HB	HB	-	-	-	HB	
<b>ELECTRIC</b>													
the dielectric constant (100 Hz)	IEC 60250		2.5	2.5	2.5	-	-	-	-	-	-	-	
volume resistivity	IEC 60093	Ohm*m	> 1*10 <sup>16</sup>	> 1*10 <sup>16</sup>	> 1*10 <sup>16</sup>	-	-	-	-	≥ 1*10 <sup>13</sup>	-	-	
surface resistivity	IEC 60093	Ohm	> 1*10 <sup>13</sup>	-	> 1*10 <sup>14</sup>	-	-	-	-	-	-	-	

ND = Non-destructive

\* ABS/PMMA SW 5% and 10% have density of 1.1 g/cm<sup>3</sup>

The values given here are for reference only. Actual values may change during production and depend on requirements and recipes agreed with the client.

**PRODUCTION:**

11 Promyshlenniy proezd,  
bldg. 6-1, Elektrostal,  
Russia, 144001

+7 (495) 702-94-83

+7 (496) 579-28-00

+7 (496) 579-28-01

[zavod@gebau.ru](mailto:zavod@gebau.ru)

[www.gebau.ru](http://www.gebau.ru)