POLITEM

DYNAMIC PLASTIC

A SUSTAINABLE CIRCULAR ECOSYSTEM

The production capacity being 18000 tons/year in 2015 has increased incrementally year by year. Following the annual volume of 30000 tons/year reached in 2018, POLITEM has turned into a changemaker company providing service through four main business units, namely recycling, engineering thermoplastics compounding, PP compounding and trading, in its 12000 square meters of facility with 60,000 tons/year production capacity by 2021.

ABOUT US

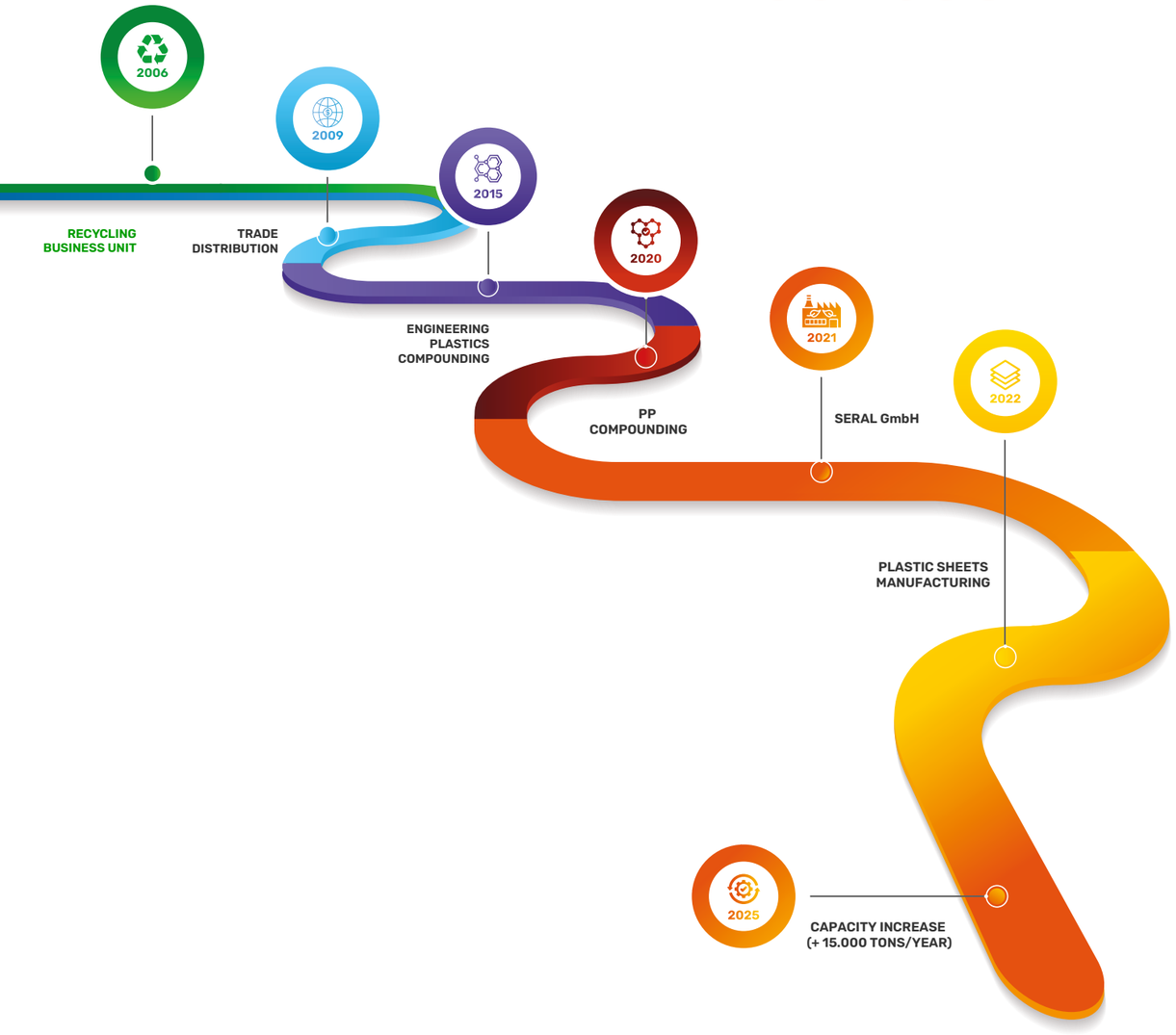
POLITEM was established in 2006 on the foundation of former family business in textile fiber manufacturing in order to produce PA feedstocks by using post-industrial textile wastes. While continuing its journey as being reliable recycled material supplier in both domestic and export markets, its trading channel also expanded by being local distributor of highly reputable global chemical companies within years.

Through a visionary strategy to be a fully integrated sustainable compound manufacturer, Politem Plastic has decided to invest in production of engineering plastic compounds at the end of 2013. There by a challenging journey started at the new factory located in Çerkezköy-Tekidağ in 2015.

While we aim to increase our existing PP market share along with our new investments in production lines with a capacity of 15000 tons/year dedicated to PP compounding specifically, we move forward with the vision of becoming innovative solution partner of our customers by our fifth business unit Plastics Sheets Manufacturing started in 2022.

With the strong expertise of our team, we lead numerous projects ranging from standard commercial products to customized compounding & applications so as to meet the requirements of diverse industrial sectors.

OUR JOURNEY



60.000+
Tons/Year
Capacity

17.000m²
Square meters
of Facility

12.000m²
Square meters
of Warehouse

25
Exporting to
Countries

We Are Your Innovative SolutionPartner with Our Five Business Units

Recycling

Engineering Thermoplastics Compounding

PP Compounding

Trade & Distribution

Manufacturing of Plastic Sheets

Quality Management & Control

ISO 9001
Quality Management System Certificate

ISO 14001
Environmental System Certificate

ISO 45001:2018 CERTIFIED COMPANY
Occupational Health and Safety Management System

ISO 10002
Customer Satisfaction Management System

Global Recycled Standard

INDITEX

MISSION & VISION

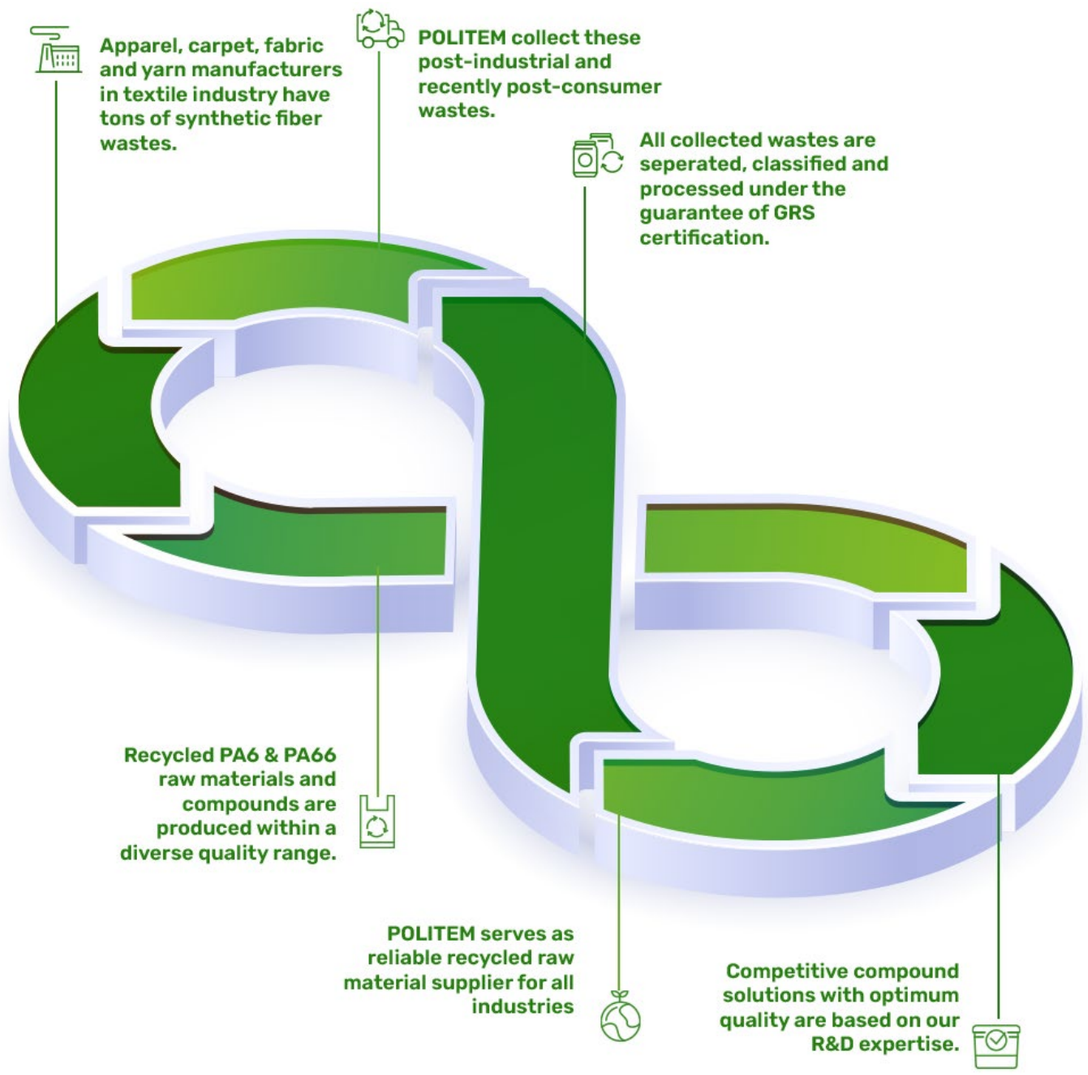
- Bringing sustainability into the forefront
- Ensuring superior quality at every stage
- Providing our partners with strong technical support and innovative solutions
- Building competitive and cooperative business partnerships
- Preserving our sense of social responsability and environmental conscience

QUALITY POLICY

As POLITEM, we consider quality management systems to be essential for sustainable coorperation
development and to have strategic importance for reliable partnerships and continuous business growth.
In accordance with this awareness, we are committed to

- Increase our productivity, market share, competitive power and ensure its sustainability with a continuous improvement approach valid for all our management systems.
- Address customer satisfaction effectively by meeting the needs and expectations of customers.
- Promote quality culture within the organisation.
- Minimize all factors causing environmental pollution, ensure efficient use of energy & natural resources and dispose unusable wastes with appropriate methods.
- Provide a safer and healthier working environment according to the legal regulations.
- Increase the productivity and motivation of our employees.
- Be transparent to our stakeholders in our actions and practices.
- Ensure continuity in quality by fulfilling necessary legal requirements and adopting new regulations.

OUR SUSTAINABILITY JOURNEY



Up to 100% Recycle Compounds

Politem is an innovative player in the field of sustainable materials, focusing on the recycling and upcycling of plastics. Our role in recycling encompasses several critical activities:

1. Collection and Segregation: Politem collects post-industrial and post-consumer plastics, specifically from key sectors such as automotive, white goods (appliances), packaging, and the textile industry. These materials are then meticulously sorted based on type and quality.

2. Processing and Refining: The collected plastic waste undergoes advanced processing techniques. This involves cleaning, shredding, and refining the materials to ensure they meet high-quality standards. Politem utilizes state-of-the-art technology to convert waste into usable plastic compounds efficiently.

3. R&D and Innovation: Politem continuously invests in research and development to improve recycling processes and develop innovative plastic compounds. This ensures that the recycled materials not only match but often exceed the performance of virgin plastics.

4. Sustainable Product Development: By transforming industrial and consumer waste into high-quality, sustainable plastic compounds, Politem provides eco-friendly alternatives for various applications. Our products are designed to meet the specific needs of different industries, thereby promoting the use of recycled materials.

5. Promoting Circular Economy: Politem plays a significant role in advancing the circular economy concept. By reclaiming and reintroducing waste materials into the production cycle, Politem helps to reduce waste, to conserve resources, and lower the carbon footprint associated with plastic manufacturing.

6. Industry Collaboration: Politem collaborates with various industry stakeholders, including manufacturers, suppliers, and end-users, to promote the adoption of sustainable practices. This includes partnerships to source waste materials and collaborations to develop new applications for recycled plastics.

7. Education and Advocacy: Politem also works towards raising awareness about the importance of recycling and sustainable material use. We engage in educational initiatives and advocate for policies that support recycling and environmental protection.

In summary, Politem's role in recycling is multi-faceted, emphasizing innovation, quality, and sustainability to make a significant impact on reducing plastic waste and promoting circular economy.

UP TO 100% RECYCLE COMPOUNDS

ZERO WASTE

TRANSFORMING WASTE INTO VALUE WITH POLITEM

From the beginning of our journey in plastic industry in 2006, recycling is a mission for us in order to carry our business forward rather than a trend. As being both one of the largest **GRS** certified & recently **INDITEX** approved PA recycling plant in Europe and a compounder, Politem is main driver of circular ecosystem by creating a closed loop for all industries consuming recyclable engineering plastics.

We produce **15000 tons recycled plastic** raw materials annually by collecting this amount of synthetic fiber wastes from textile manufacturing and polymer companies majorly. In addition to our core recycling business of **PA6** and **PA66**, we make investments in order to enlarge our recycled material portfolio for **PBT**, **PP**, **PC** and **ABS**.

RE
think
cycle
invent
duce
use

Contact us in order to be our sustainability success partner

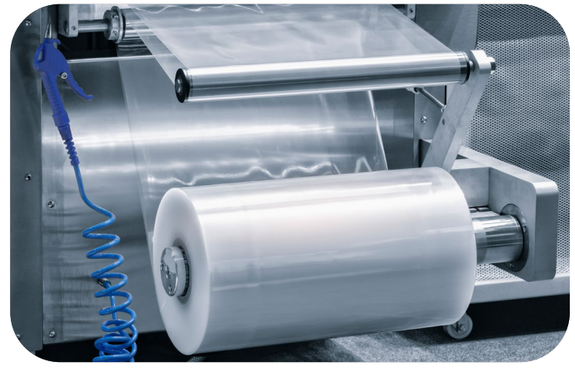
OUR RESOURCES

Post Consumer & Post Industrial

AUTOMOTIVE

TEXTILE

WHITE GOODS



PACKAGING

Eco - Innovation

Cost Optimization

Agile Problem Solving

Weight Reduction

Metal Replacement

Reverse Engineering

Customized Product Design

MAIN MOTIVATIONS OF POLITEM R&D

Technology & Innovation

Our R&D team has considerable expertise in compounding and offers a broad range of innovative solutions in order to meet technical demands arising from dynamic global market conditions. With its highly experienced team members, state-of-the-art laboratory equipments and dedicated pilot production line, it successfully manages a series of projects ranging from commercial to customized products & applications.

Testing Capabilities

POLITEM Laboratory equipped with high-technology instruments has a comprehensive range of testing capabilities. We utilize a variety of methods in order to analyze all significant material properties including physical, thermal, mechanical and flammability. In accordance with the objective to align with IATF 16949, we continuously expand and improve our testing facilities.

- Material Identification
- Surface and Optical Tests
- Rheology and Processability Properties
- Conditioning Tests
- Mechanical and Physical Tests
- Accelerated Aging Tests
- Electrical and Thermal Tests
- Color and Gloss Measurements
- Customer Process Simulations
- Flame and Fire Resistance Tests

INDUSTRIES WE SERVE

Automotive	Household	Agriculture
Electric & Electronics	Construction	E-Mobility
Packaging	Furniture	And Others

Scan QR Code

OUR PRODUCTS

POLITEM has a broad compound spectrum with diverse quality ranging from virgin compounds manufactured by high torque Coperion machines to hybrid & totally recycled compounds processed in customized extrusion lines.

RUGOPA is the brand name of Polyamide (PA) Compounds that POLITEM produces.

RUGOPA M SERIAL PA 6
RUGOPA S SERIAL PA 6.6
RUGOPA K SERIAL PA 6.6/6
RUGOPA V SERIAL PA6.10
RUGOPA Z SERIAL PA6.12
RUGOPA C SERIAL PA12
RUGOPA D SERIAL PA6/66 COPOLIMER

- Standard impact to supertough
- Electrical conductive
- Glass fiber reinforced
- Unreinforced
- Carbon fiber reinforced
- Laser markable
- Aramide fiber reinforced
- Glass bead reinforced
- Mineral filled and reinforced
- Low warpage types
- Flame retardant
- Lubricated
- Surface modified
- Heat stabilized
- UV/light stabilized
- Speciality

RUGOPPA is the brand name of Polyphthalamide(PPA) Compounds that POLITEM produces.

RUGOPPA P SERIAL PPA

- Flame retardant
- Unreinforced
- Electrical conductive
- Impact modified
- Glass fiber reinforced
- Heat stabilized
- Carbon fiber reinforced
- Aramide fiber reinforced
- Glass bead reinforced
- Mineral filled and reinforced
- Low warpage types
- Lubricated
- Surface modified
- UV/light stabilized
- Speciality

MAGNAPBT is the brand name of Polybutylene Teraphythalate (PBT) Compounds that POLITEM produces.

MAGNA L SERIAL PBT

- Unreinforced
- Impact modified
- UV/light stabilized
- Laser markable
- Glass fiber reinforced
- Carbon fiber reinforced
- Glass bead reinforced
- Mineral filled and reinforced
- Surface modified
- Low warpage types
- Flame retardant
- High tracing resistance
- Lubricated
- Heat stabilized
- Electrical conductive
- Direct metallizable
- Speciality

INGEPET is the brand name of Polyethylene Teraphythalate (PET) Compounds that POLITEM produces.

- Impact modified
- Glass fiber reinforced
- Laser markable
- Carbon fiber reinforced
- Glass bead reinforced
- UV/light stabilized
- Mineral filled and reinforced
- Flame retardant
- Surface modified
- Heat stabilized
- Electrical conductive
- Speciality

JURAPOM is the brand name of Polyacetal (POM) Compounds that POLITEM produces.

JURAPOM X SERIAL POM (HOMO-POLYMER/ COPOLYMER)

- Unreinforced
- Laser markable
- Impact modified
- Glass fiber reinforced
- Heat stabilized
- Carbon fiber reinforced
- Aramide fiber reinforced
- Glass bead reinforced
- Low warpage types
- Lubricated
- Surface modified
- UV/light stabilized
- Electrical conductive
- Speciality

ANKYLOPP is the brand name of PP Compounds that POLITEM produces.

- Impact modified
- Glass fiber reinforced
- Laser markable
- Glass bead reinforced
- Mineral filled
- Flame retardant
- Electrical conductive
- Heat stabilized
- UV/light stabilized
- Speciality

SPINOPC is the brand name of Polycarbonate (PC) Compounds that POLITEM produces.

SPINOPC T SERIAL PC
SPINOPC R SERIAL ASA

- Impact modified
- Flame retardant
- Glass fiber reinforced
- Glass bead reinforced
- Carbon fiber reinforced
- Lubricated
- Surface modified
- Laser markable
- UV/light stabilized
- Electrical conductive
- Speciality

MONOLABS is the brand name of Acrylic-Based Polymer (ABS, PMA, PMMA, SAN) compounds that POLITEM produces.

- Impact modified
- Flame retardant
- Glass fiber reinforced
- Glass bead reinforced
- Carbon fiber reinforced
- Lubricated
- Surface modified
- Laser markable
- UV/light stabilized
- Electrical conductive
- Speciality

JOBABLEND is the brand name of PC/ABS, PA66/6 and PBT/PET Blends that POLITEM produces.

JOBABLEND TB SERIAL PC/ABS
JOBABLEND TL SERIAL PC/PBT
JOBABLEND TR SERIAL PC/ASA
JOBABLEND MB SERIAL PA6/ABS
JOBABLEND SB SERIAL PA6.6/ABS
JOBABLEND YB SERIAL PA666/ABS
JOBABLEND MN SERIAL PA6/TPU
JOBABLEND SN SERIAL PA6.6/TPU
JOBABLEND LH SERIAL PBT/PET

- Impact modified
- Flame retardant
- Glass fiber reinforced
- Glass bead reinforced
- Carbon fiber reinforced
- Lubricated
- Surface modified
- Laser markable
- UV/light stabilized
- Electrical conductive
- Speciality

POLITEM GREEN COMPOUNDS

PA6

Product Code	Product Description	Brand	Density	Viscocity Number	MFI	MFI Parameters	Modulus	Tensile Strenght at Break	Charpy Notched	Flammability 1.6 mm	GWFI 2.00 mm (°C)	GWFI 2.00 mm (°C)	% PIR	% PCR	Special Property	Application
			ISO 1183	ISO 307	ISO 1133		ISO 527-2	ISO 527-2	ISO 179	UL94	IEC 60695					
M13001BK02	PA6 UNFILLED BLACK	RUGOPA	1,13	135-160	-	-	2600	65	5,5	-	-	-	100	-		● 🚗 🧺
M13101NC02	PA6 UNFILLED BLACK	RUGOPA	1,13	135-160	-	-	2600	70	6	-	-	-	100	-		● 🧵 ⚡
M13007BK001000	PA6 30% GLASS FIBER BLACK HEAT STABILIZED	RUGOPA	1,36	135-160	-	-	8500	130	9	-	-	-	~ 70	-	HEAT STABILIZED	🚗 🪑 🚜
M40007BK003101	PA6 30% GLASS FIBER BLACK IMPACT MODIFIED	RUGOPA	1,35	135-155	-	-	7250	95	9,5	-	-	-	~ 65	-	IMPACT MODIFIED	● 🧺 🔌
M20012BK00	PA6/66 30% GLASS FIBER BLACK	RUGOPA	1,36	110-145	-	-	8500	115	7,5	-	-	-	~ 70	-		● 🧺 🔌
M20005BK00	PA6 10% GLASS FIBER BLACK	RUGOPA	1,21	110-145	-	-	4250	75	3	-	-	-	~ 90	-		🚗
M43707NC021000	PA6 30% GLASS BEAD NATURAL HEAT AGING	RUGOPA	1,35	143-155	-	-	4000	65	4	-	-	-	~ 70	-	HEAT STABILIZED	🪑 🚜
M45007NC03	PA6 30% GLASS FIBER NATURAL	RUGOPA	1,36	120-140	-	-	9000	145	8	-	-	-	~ 70	-		● 🚗 🧺
M45810GR10	PA6 UNFILLED GREY (ANTRASIT GREY) IMPACT MODIFIED	RUGOPA	1,11	120-145	-	-	2400	55	11	-	-	-	~ 90	-		⛑
M15810BK02	PA6 UNFILLED BLACK IMPACT MODIFIED	RUGOPA	1,11	120-145	-	-	2500	60	10	-	-	-	~ 95	-		⛑ 🧺 🪑
M17007BK55GR501	PA6 30% GLASS FIBER BLACK	RUGOPA	1,36	130-160	-	-	7250	95	8,5	-	-	-	~ 50	~ 20		🚗 ● 🚜
M17007BK55GR502	PA6 30% GLASS FIBER BLACK	RUGOPA	1,36	130-160	-	-	7000	90	8	-	-	-	~ 40	~ 30		🚗 ●
M18007BK55GR501	PA6 30% GLASS FIBER BLACK	RUGOPA	1,36	110-150	-	-	7250	95	8,5	-	-	-	~ 20	-		●
M18001BK55GR502	PA6 30% GLASS FIBER BLACK	RUGOPA	1,36	110-150	-	-	7000	90	8	-	-	-	~ 30	-		●
M18001BK55GR503	PA6 UNFILLED BLACK	RUGOPA	1,13	110-150	-	-	2600	60	4	-	-	-	~ 50	~ 50		●

● General Industry 🚗 Automotive 🧺 White Goods 🔌 Small Appliances 🧵 Textile 🪑 Furniture ⚡ Electric/Electronic 🚜 Defense 🚜 Agriculture ⛑ Construction

POLITEM GREEN COMPOUNDS

PA66

Product Code	Product Description	Brand	Density	Viscocity Number	MFI	MFI Parameters	Modulus	Tensile Strenght at Break	Charpy Notched	Flammability 1.6 mm	GWFI 2.00 mm (°C)	GWFI 2.00 mm (°C)	% PIR	% PCR	Special Property	Application
			ISO 1183	ISO 307	ISO 1133		ISO 527-2	ISO 527-2	ISO 179	UL94	IEC 60695					
S13001BK02	PA66 UNFILLED BLACK	RUGOPA	1,14	140-160	-	-	3000	65	4,5	-	-	-	100	-	-	
S13100NC02	PA66 UNFILLED NATURAL	RUGOPA	1,14	140-160	-	-	3300	65	4,5	-	-	-	100	-	-	
S13007BK001000	PA66 30% GLASS FIBER BLACK HEAT AGING	RUGOPA	1,36	140-160	-	-	9000	140	7,5	-	-	-	~ 70	-	HEAT STABILIZED	
S20012BK00	PA66/6 30% GLASS FIBER BLACK	RUGOPA	1,36	110-145	-	-	8500	110	6	-	-	-	~ 70	-	-	
S40007BK003101	PA66 30% GLASS FIBER BLACK IMPACT MODIFIED	RUGOPA	1,35	140-155	-	-	8500	125	6	-	-	-	~ 70	-	IMPACT MODIFIED	
Y23025BK603500	PA66 25% GLASS FIBER BLACK IMPACT MODIFIED	RUGOPA	1,3	150-180	-	-	7000	100	9	-	-	-	~ 65	-	IMPACT MODIFIED EXTRUSION GRADE	
S43016BK60	PA66 50% GLASS FIBER BLACK	RUGOPA	1,56	135-145	-	-	16000	210	15	-	-	-	~ 50	-	-	
S43026NC102040	PA66 35% GLASS FIBER NATURAL with RED PHOSPORUS FR	RUGOPA	1,41	140-155	-	-	12000	170	10	V0	960	-	~ 55	-	FLAME RETARDANT	
S43007BK601000	PA66 30% GLASS FIBER BLACK HEAT AGING	RUGOPA	1,36	145-160	-	-	9800	170	8	-	-	-	~ 70	-	HEAT STABILIZED	
S43007BK601003	PA66 30% GLASS FIBER BLACK HYDROLYSIS RESISTANCE	RUGOPA	1,36	145-155	-	-	9800	170	9	-	-	-	~ 70	-	HEAT STABILIZED HYDROLYSIS RESISTANT	
S43702BK226000	PA66 15% MINERAL FILLED BLACK	RUGOPA	1,24	140-150	-	-	3800	80	5,5	-	-	-	~ 85	-	HIGH STIFFNESS	
S45016BK553101	PA66 50% GLASS FIBER IMPACT MODIFIED BLACK	RUGOPA	1,54	120-144	-	-	14000	145	12	-	-	-	~ 45	-	IMPACT MODIFIED	
Y20025BK5535001000	PA66 25% GLASS FIBER BLACK IMPACT MODIFIED	RUGOPA	1,3	110-145	-	-	8000	100	7,5	-	-	-	~ 55	-	HEAT STABILIZED AND HIGH STIFFNESS, EXTRUSION GRADE	
S43025NC022070	PA66 25% GLASS FIBER NATURAL HF FR HEAT AGING	RUGOPA	1,42	125-140	-	-	9200	105	5,5	V0	960	-	~ 55	-	FLAME RETARDANT	
S45001GR081000	PA66 UNFILLED GREY	RUGOPA	1,14	110-145	-	-	3000	70	4,5	-	-	-	100	-	HEAT STABILIZED	

General Industry · Automotive · White Goods · Small Appliances · Textile · Furniture · Electric/Electronic · Defense · Agriculture · Construction

POLITEM GREEN COMPOUNDS

POLITEM GREEN COMPOUNDS

PA6.12

Product Code	Product Description	Brand	Density	Viscocity Number	MFI	MFI Parameters	E Modulus	Tensile Strenght at Break	Charpy Notched	Flammability 1.6 mm	GWFI 2.00 mm (°C)	GWFI 2.00 mm (°C)	% PIR	% PCR	Special Property	Application
			ISO 1183	ISO 307	ISO 1133		ISO 527-2	ISO 527-2	ISO 179	UL94	IEC 60695					
Z13001BK55	PA6.12 UNFILLED BLACK	RUGOPA	1,06	140-150	-	-	2000	50	3,5	-	-	-	100	-	-	
Z13001NC10	PA6.12 UNFILLED NATURAL	RUGOPA	1,07	140-155	-	-	2200	55	5	-	-	-	100	-	-	

PP

Product Code	Product Description	Brand	Density	Viscocity Number	MFI	MFI Parameters	E Modulus	Tensile Strenght at Break	Charpy Notched	Flammability 1.6 mm	GWFI 2.00 mm (°C)	GWFI 2.00 mm (°C)	% PIR	% PCR	Special Property	Application
			ISO 1183	ISO 307	ISO 1133		ISO 527-2	ISO 527-2	ISO 179	UL94	IEC 60695					
F41624BK551000GR503	PPH 20% MINERAL FILLED BLACK HEAT STABILIZED	ANKYLOPP	1,07	-	5-12	230 °C / 2.16 kg	2250	27	3	-	-	-	50	50	HEAT STABILIZED	
E41624BK551100GR501	PPC 20% MINERAL FILLED BLACK HEAT & UV STABILIZED	ANKYLOPP	1,06	-	5-12	230 °C / 2.16 kg	1500	20	6	-	-	-	70	30	HEAT & UV STABILIZED	
J41624GR181000GR501	PPC&PPH 20% MINERAL FILLED GREY HEAT & DETERGENT STABILIZED	ANKYLOPP	1,06	-	5-12	230 °C / 2.16 kg	MIN 1800	22	MIN 4	-	-	-	100	-	HEAT & DETERGENT STABILIZED	
F42624BK00 1000	PPH 20% MINERAL FILLED BLACK HEAT STABILIZED	ANKYLOPP	1,06	-	12-18	230 °C / 2.16 kg	2650	30	3	-	-	-	100	-	HEAT STABILIZED, HIGH STIFFNESS	
J42624BK551000GR503	PPH & PPC 20% MINERAL FILLED BLACK HEAT STABILIZED	ANKYLOPP	1,06	-	5-12	230 °C / 2.16 kg	MIN 1600	22	MIN 10	-	-	-	50	50	HEAT & UV STABILIZED, IMPACT & STIFFNESS BALANCED	
E42624BK551100	PPC 20% MINERAL FILLED BLACK (HIMP, UV, SCRATCH)	ANKYLOPP	1,04	-	12-18	230 °C / 2.16 kg	MIN 1400	18	MIN 20	-	-	-	100	-	HIGH IMPACT, UV & SCRATCH RESISTANT	
E42605BK551100	PPC 10% MINERAL FILLED BLACK (HIMP, UV, SCRATCH)	ANKYLOPP	0,98	-	12-18	230 °C / 2.16 kg	MIN 1200	18	MIN 20	-	-	-	100	-	HIGH IMPACT, UV & SCRATCH RESISTANT, LIGHT WEIGHT	
F41603BK551000GR501	PPH 40% MINERAL FILLED BLACK HEAT STABILIZED	ANKYLOPP	1,25	-	5-12	230 °C / 2.16 kg	2800	30	3	-	-	-	70	30	HEAT STABILIZED HIGH STIFFNESS	
F41403BK551000GR501	PPH 40% MINERAL FILLED BLACK HEAT STABILIZED	ANKYLOPP	1,27	-	5-12	230 °C / 2.16 kg	2200-2800	18-22	MIN 2,5	-	-	-	100	-	HEAT & DETERGENT STABILIZED	
E41007BK551000GR503	PPC 30% GLASS FIBER BLACK HEAT STABILIZED	ANKYLOPP	1,12	-	5-12	230 °C / 2.16 kg	5500	55	10	-	-	-	70	30	HEAT STABILIZED	
F41007BK551000GR501	PPH 30% GLASS FIBER BLACK HEAT STABILIZED	ANKYLOPP	1,13	-	5-12	230 °C / 2.16 kg	6500	65	8	-	-	-	70	30	HEAT STABILIZED HIGH STIFFNESS	
F42007BK551000	PPH 30% GLASS FIBER BLACK HEAT STABILIZED	ANKYLOPP	1,13	-	12-18	230 °C / 2.16 kg	6500	75	8	-	-	-	100	-	HEAT STABILIZED HIGH STIFFNESS	

General Industry · Automotive · White Goods · Small Appliances · Textile · Furniture · Electric/Electronic · Defense · Agriculture · Construction

POLITEM GREEN COMPOUNDS

POLITEM GREEN COMPOUNDS

PBT

Product Code	Product Description	Brand	Density	Viscocity Number	MFI	MFI Parameters	E Modulus	Tensile Strenght at Break	Charpy Notched	Flammability 1.6 mm	GWFI 2.00 mm (°C)	GWFI 2.00 mm (°C)	% PIR	% PCR	Special Property	Application
			ISO 1183	ISO 307	ISO 1133		ISO 527-2	ISO 527-2	ISO 179	UL94	IEC 60695					
L20007BK551000	PBT 30% GLASS FIBER BLACK HEAT AGING	MAGNAPBT	1,52	-	15-50	230 °C / 2.16 kg	9000	125	8	-	-	-	~ 70	-	HEAT STABILIZED	
L43005NC003101	PBT 10% GLASS FIBER IMPACT MODIFIED NATURAL	MAGNAPBT	1,34	-	15-55	230 °C / 2.16 kg	3500	70	6,5	-	-	-	~ 90	-	HEAT STABILIZED IMPACT MODIFIED	
L43002BK551000	PBT 15% GLASS FIBER BLACK HEAT AGING	MAGNAPBT	1,39	-	15-50	230 °C / 2.16 kg	5250	85	5,5	-	-	-	~ 85	-	HEAT STABILIZED	
L43007BK551000	PBT 30% GLASS FIBER BLACK HEAT AGING	MAGNAPBT	1,55	-	15-60	230 °C / 2.16 kg	8500	85	6	-	-	-	~ 70	-	HEAT STABILIZED	
L43001BK553101	PBT UNFILLED IMPACT MODIFIED BLACK	MAGNAPBT	1,28	-	20-65	230 °C / 2.16 kg	2000	48	6,5	-	-	-	~ 40	-	IMPACT MODIFIED GLOSS	
L43001BK552060	PBT UNFILLED BLACK FLAME RETARDANT	MAGNAPBT	1,44	-	15-50	230 °C / 2.16 kg	2000	45	3,5	V0	-	-	~ 15	-	FLAME RETARDANT	
L43003BK551000	PBT 40% GLASS FIBER BLACK HEAT AGING	MAGNAPBT	1,63	-	20-65	230 °C / 2.16 kg	9500	95	6	-	-	-	~ 45	-	HEAT STABILIZED, HIGH STIFFNESS	
L43007WH15	PBT 30% GLASS FIBER WHITE	MAGNAPBT	1,53	-	45	230 °C / 2.16 kg	8250	95	4	-	-	-	~ 15	-	-	

ABS

Product Code	Product Description	Brand	Density	Viscocity Number	MFI	MFI Parameters	Modulus	Tensile Strenght at Break	Charpy Notched	Flammability 1.6 mm	GWFI 2.00 mm (°C)	GWFI 2.00 mm (°C)	% PIR	% PCR	Special Property	Application
			ISO 1183	ISO 307	ISO 1133		ISO 527-2	ISO 527-2	ISO 179	UL94	IEC 60695					
B45001BK55	ABS UNFILLED BLACK	MONOLABS	1,05	-	15-35	220 °C / 10 kg	1900	40	20	-	-	-	100	-	-	
B45007BK55	ABS 30% GLASS FIBER BLACK	MONOLABS	1,26	-	15-35	220 °C / 10 kg	8000	65	4,5	-	-	-	~ 70	-	-	

General Industry · Automotive · White Goods · Small Appliances · Textile · Furniture · Electric/Electronic · Defense · Agriculture · Construction

POLITEM GREEN COMPOUNDS

POLITEM GREEN COMPOUNDS

PC

Product Code	Product Description	Brand	Density	Viscocity Number	MFI	MFI Parameters	Modulus	Tensile Strenght at Break	Charpy Notched	Flammability 1.6 mm	GWFI 2.00 mm (°C)	GWFI 2.00 mm (°C)	% PIR	% PCR	Special Property	Application
			ISO 1183	ISO 307	ISO 1133		ISO 527-2	ISO 527-2	ISO 179	UL94	IEC 60695					
T45001BK55	PC UNFILLED BLACK	SPINOPC	1,19	-	15-30	330 °C / 1.20 kg	2000	55	25	-	-	-	100	-	-	
T45001GR152060	PC UNFILLED GREY FLAME RETARDANT	SPINOPC	1,24	-	25-35	330 °C / 1.20 kg	2250	65	8	V0	960	-	~ 85	-	FLAME RETARDANT	
T45001GR08	PC UNFILLED GREY	SPINOPC	1,19	-	25-70	330 °C / 1.20 kg	2100	35	3,5	-	-	-	100	-	-	

PET

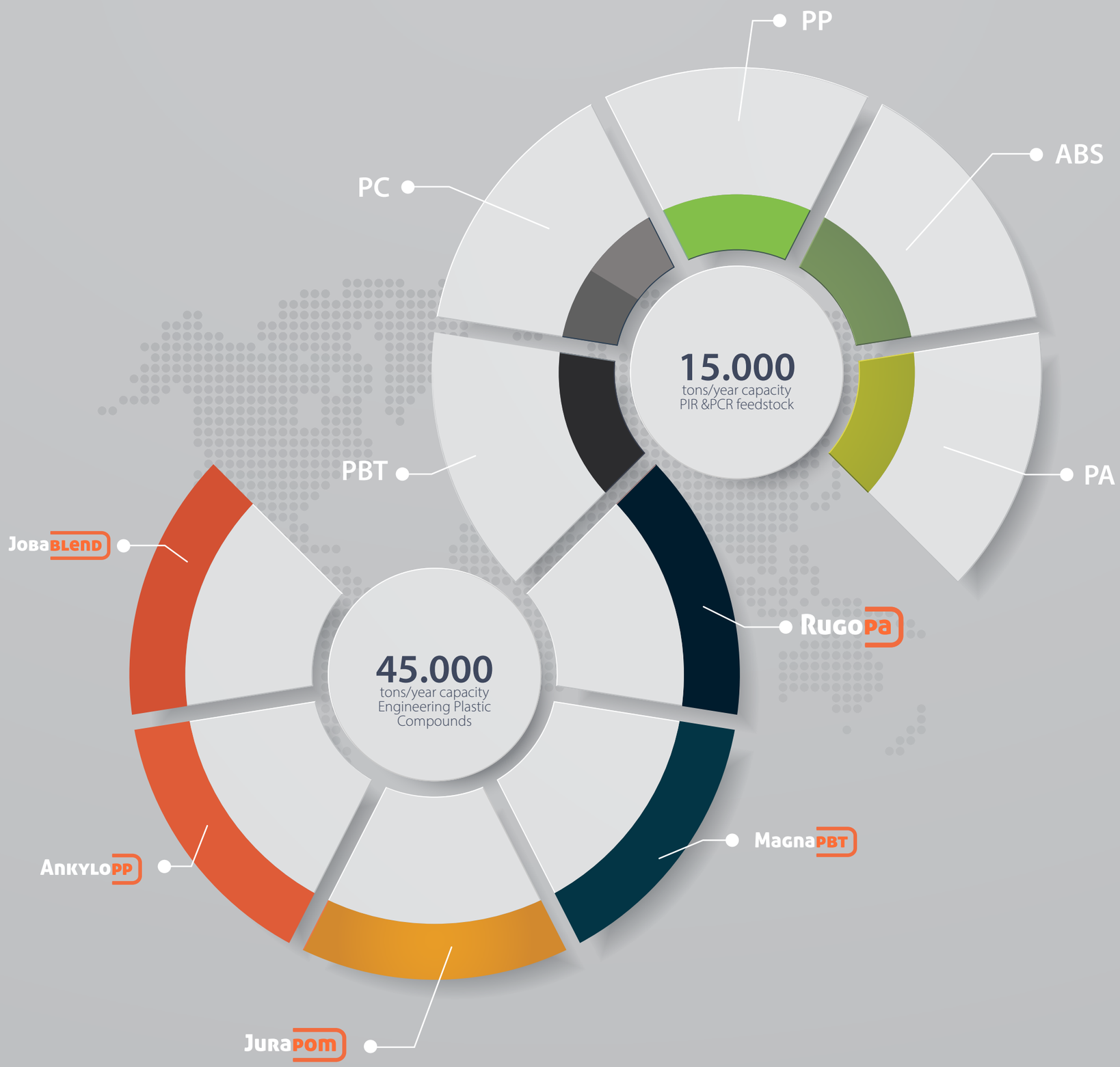
Product Code	Product Description	Brand	Density	Viscocity Number	MFI	MFI Parameters	Modulus	Tensile Strenght at Break	Charpy Notched	Flammability 1.6 mm	GWFI 2.00 mm (°C)	GWFI 2.00 mm (°C)	% PIR	% PCR	Special Property	Application
			ISO 1183	ISO 307	ISO 1133		ISO 527-2	ISO 527-2	ISO 179	UL94	IEC 60695					
H44007WH191000	PET 30% GLASS FIBER WHITE HEAT AGING	INGEPET	1,58	-	45-60	275 °C / 2.16 kg	10500	110	4	-	-	-	~ 70	-	HEAT STABILIZED	
H44007NC051000	PET 30% GLASS FIBER NATURAL HEAT AGING	INGEPET	1,58	-	60-80	275 °C / 2.16 kg	11000	120	6	-	-	-	~ 70	-	HEAT STABILIZED	

BLENDS

Product Code	Product Description	Brand	Density	Viscocity Number	MFI	MFI Parameters	Modulus	Tensile Strenght at Break	Charpy Notched	Flammability 1.6 mm	GWFI 2.00 mm (°C)	GWFI 2.00 mm (°C)	% PIR	% PCR	Special Property	Application
			ISO 1183	ISO 307	ISO 1133		ISO 527-2	ISO 527-2	ISO 179	UL94	IEC 60695					
LH43007BK557201	PBT/PET 30% GLASS FIBER BLACK HEAT AGING	JOBABLEND	1 ,55	-	15-20	265 °C / 2.16 kg	10200	145	10	-	-	-	~ 25	-	HEAT STABILIZED	
TB41001BK5510007102	PC/ABS UNFILLED BLACK HEAT AGING	JOBABLEND	1,1	-	15-30	260 °C / 5.00 kg	2100	50	45	-	-	-	~ 60	-	HEAT STABILIZED	
TL43820BK551100	PC/PBT UNFILLED IMPACT MODIFIED BLACK (HEAT&UV STABILIZED)	JOBABLEND	1,2	-	10-30	250 °C / 5.00 kg	1800	43	55	-	-	-	~ 80	-	HEAT&UV SATBILIZED IMPACT MODIFIED	
TB41002BK778013	PC/ABS 15% GLASS FIBER BLACK CONDUCTIVE	JOBABLEND	1,32	-	10-40	260 °C / 5.00 kg	6000	80	5,5	-	-	-	~ 20	-	ELLECTRICALLY CONDUCTIVE	
TB41001BK557103	PC/ABS UNFILLED BLACK	JOBABLEND	1,13	-	20-50	250 °C / 10.00 kg	1900	45	25	-	-	-	~ 90	-	-	

General Industry · Automotive · White Goods · Small Appliances · Textile · Furniture · Electric/Electronic · Defense · Agriculture · Construction

Politem Product Range



PTEROFLAT XT PMMA SHEETS

With it's solid structure, low weight, superior rigidity and excellent weather resistance; PTEROFLAT XT PMMA Sheets ensures optimum light transmission and perfect solution for architects and interior designers. Easily thermoformed, machined, polished, glue bonded and reshaped PTEROFLAT XT PMMA Sheets is half the weight of glass with 93% light transmission.
PTEROFLAT XT PMMA Acrylic Sheets can withstand outdoor conditions with life-long UV resistance.

- ► Optical quality
- ► Optimum light transmission
- ► Perfect color stability
- ► Excellent weather resistance
- ► 2 - 20 mm thickness range

- ■ **100% Recyclable**
- ■ **Produced In Isolated Clean Room**

PTEROFLAT XT SOLID PC SHEETS

Perfect solution for sound reduction barriers, skylights and domes thanks to it's "unbreakable" structure. PTEROFLAT XT Solid PC Sheets are highly stable under outdoor weather conditions. Relying on UV radiation persistence, they do not show any substantial variations in their properties even after years of exposure to sunlight.

- ► Outstanding toughness and heat resistance
- ► Perfect solution for any outdoor usage with extra strength and durability needs
- ► 2 sides UV protected
- ► 2 - 20 mm thickness range

- ■ **100% Recyclable**
- ■ **Produced In Isolated Clean Room**

Recycled PTEROFLAT Extruded Acrylic Sheets (PMMA)

Recycled PTEROFLAT Extruded Acrylic Sheets are manufactured using recycled PMMA and adhere to the ISO 7823-2:2003 standard. These versatile sheets are suitable for a broad range of domestic and industrial uses, both indoors and outdoors.

Available in various thicknesses and clear color options, Recycled PTEROFLAT XT sheets provide excellent transparency, clarity, and resistance to weathering and aging. They can be easily machined or thermoformed using standard techniques.

Environmental Friendly

Recycled PTEROFLAT XT sheets are environmentally friendly. Life Cycle Assessment (LCA) and Eco profiles of PMMA sheet production show a low environmental impact. Their outstanding chemical stability and long-term resistance to aging and weathering often ensure a prolonged service life. Both the sheets and their polyethylene protective layers are fully recyclable. They are free from toxic materials, halogens, and heavy metals that could cause environmental damage or health risks. Additionally, Recycled PTEROFLAT XT sheets do not contain Bisphenol-A, and no Ozone Depleting Substances (ODS) are used in their manufacture. They do not release pollutants during production, and in case of burning, they do not produce toxic or corrosive gases and can be extinguished with water. Recycled PTEROFLAT XT scrap is not classified as hazardous waste; small amounts can be disposed of as household refuse, while larger quantities should be recycled.

Classification and Safety

Recycled PTEROFLAT XT sheets are classified as:

- HB according to UL94.
- E according to UNE-EN ISO 13501.

Urban Noise Reduction

Recycled PTEROFLAT XT sheets are widely used as noise-reduction barriers along roads and highways. For more detailed information, refer to the PTEROFLAT Sound Wall Barrier page.

Chemical Resistance

Recycled PTEROFLAT XT sheets demonstrate good resistance to water, alkalis, aqueous inorganic salt solutions, and most common dilute acids. While some substances have no effect, others may cause staining, swelling, crazing, weakening, or even complete dissolution of the material. For specific applications, please consult Politem Plastik Technical Support.

For further information or technical support, contact Politem Plastic.

Properties	Method	Units	Plazcryl Recycled
General			
Density	ISO 1183	g/cm³	1.19
Water Absorption	ISO 62 (1)	%	0.3
Mechanical			
Tensile Strength	ISO 527-2	MPa	72
Elongation at break	ISO 527-2	%	4
Tensile Modulus	ISO 527-2	MPa	3300
Flexural Strength	ISO 178	MPa	106
Flexural Modulus	ISO 178	MPa	3350
Compressive Strength	ISO 604	MPa	117
Rockwell Hardness	M scale		95
Impact Resistance (Charpy unnotched)	ISO 179/1fu	kJ/m²	15
Impact Resistance (Charpy notched)	ISO 179/1eA	kJ/m²	2
Impact Resistance (Izod notched)	ISO 180/1A	kJ/m²	1.5
Optical			
Refractive Index	ISO 489		1.49
Light Transmission (3mm transparent sheet)	ASTM D1003	%	92
Haze (3mm transparent sheet)	ASTM D1003	%	< 1
Thermal			
Vicat Softening Temp.(50N)	ISO 306	°C	105
Heat Deflection Temp. (1.82 MPa)	ISO 75-1	°C	95
Coeff. of Linear Thermal Expansion (0-500C)	ISO 11359	µm/m0C	65
Thermal Conductivity	ASTM C177	W/mK	0.19
Maximum Continuous Service Temp.		°C	70
Maximum Short Time Service Temp.		°C	90
Minimum Temp.		°C	-40
Electrical			
Dielectric Strength	DIN 53481	kV/mm	20-25
Dielectric Constant (50Hz)	DIN 53483		3.7
Dissipation Factor tanδ (50Hz)	DIN 53483		0.04
Surface Resistivity	IEC 60093	Ohm	$>10^{14}$
Volume Resistivity	IEC 60093	Ohm.cm	$>10^{15}$

CONTACT US

POLITEM
DYNAMIC PLASTIC

Seral GmbH

Veliköy OSB Mahallesi, Sanayi Bulvarı No:37/1 Çerkezköy/TEKIRDAĞ- TURKIYE

www.politem.com