

(D) HIPS SHEETS

Major Features :

- Excellent thermoforming
- Excellent printability
- Good scratch resistance
- High gloss



HIPS Sheets for Thermoforming



Deep Freezer Liner



Refrigerator Liner

Major Applications :

- Food industry approved by FDA
- Packaging for food products
- Refrigeration

STANDARD SIZES :

Width	Length	Thickness
1000	2000	0.5 mm to 6.0 mm
1220	2440	0.5 mm to 6.0 mm
1500	3000	0.5 mm to 8.0 mm

Available in form of rolls

*\*Special sizes and thickness are available on demand.*

KBK HIPS/GPPS	Refrigerator liner
KBK HIPS/DUAL	Display and POP systems

Creating  
Solutions  
in  
Polymers

TECHNICAL DATA

Property	Test Method	Unit	KBK HDPE Natural	KBK PPCP	KBK PP HP	KBK ABS	KBK HIPS
Density	ISO 1183	g/cm³	0.945	0.9	0.9	1.05	1.05
Molecular Weight	-	Mil/mol	> 0.25	-	-	-	-
Tensile Strength	ISO 527-1	Mpa	23	26	34	45	26
Breaking Strength	ISO 527-1	Mpa	36	-	-	-	-
Elongation at Break	ISO 527-1	%	> 300	> 50	9	10	40
Modulus of elasticity	ISO 527-1	Mpa	800	950	1300	2300	2000
Impact Strength	ISO 179	Kj/m2	NB	NB	NB	NB	NB
Impact Strength 15° V Notch	ISO 179	Kj/m2	> 20	40	6	14	12
Ball Thrust Hardness 30s	ISO 2039.1	N/mm²	40	50	65	-	-
Shore Hardness D 15 s	ISO 868	-	63	69	72	82	80
Wear Resistance	Sand Slurry	-	200-350	400-500	400-500	-	-
Vicat Softening temp. VSP/b/50	ISO 306	°c	67	73	90	106	84

For further details, please contact :

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KBK Polymers Pvt. Ltd. is an ultra-modern, First in India, imported 5 Layer extrusion Sheet Line of 1500 mm finished width able to extrude sheets of ABS, HIPS, PP, HDPE, HIPS/GPPS, ABS/PMMA, ABS/ASA, double coloured, triple coloured sheets in varying thickness of 0.5 to 8 mm and an output capacity of 12 TPD. Sheets are made with a focus to cater to needs of automobile and consumer durable and other industries.

(A) KBK POLYPROPYLENE SHEETS & RODS

KBK Polypropylene is a crystalline polymer noted for excellent chemical resistance. It is used extensively in chemical processing, chemical storage, metal finishing, electroplating, galvanizing industry. It is also used to make engineering components such as nozzles, impellers, pump casing jigs & fixtures. It finds extensive use in orthopaedic and prosthetic devices and semi conductor and clean room industry. It is being used to make components and consumer articles via vacuum and thermoforming & other forming process.

ADVANTAGES :

- Low Density
  - High Strength to weight ratio
  - Corrosion resistance
  - Excellent chemical and corrosion resistance
- Excellent vacuum thermoforming properties
  - Cost effectiveness
  - Very good welding and machining property

DELIVERY PROGRAMME :

KBK PPX 258	Homopolymer for tanks/vessels
KBK PPX 259	Block Copolymer with high impact strength
KBK PP GL	PP fibre glass lined
KBK HITECH*	High heat & chemical resistant grade for tanks & vessels
KBK HITECH GL	High heat and chemical resistant PP GL backed
KBK DIPRA AD CLEAR	Glow Sign Sheets for advertising
KBK DIPRA CLEAR	Transparent clear sheets
KBK PP EMBOSSED	One side embossed sheets
KBK PP DUAL	Co-extruded sheets double coloured
KBK PP-R	Random Copolymers
KBK HITECH-M	Stabilised against metal contact
KBK PPUV	UV Stabilised Polypropylene

\* Details available on request

STANDARD SIZES :

Extruded Sheets :

Width	Length	Thickness
1000	2000	0.5 mm to 8 mm
1220	2440	0.5 mm to 8 mm
1250	2000	0.5 mm to 8 mm
1500	3000	0.5 mm to 8 mm

Extruded Rolls :

Width	Length	Thickness
1500	10000	1.5 mm to 5 mm PPGL
1500	30500	1.0 mm to 2 mm DIPRA Add Clear
1500	10000	0.5 mm to 3 mm PP Sheets

\*Special sizes and thickness are available on demand.

Welding Rods :

3 mm and 5 mm dia available in 1 kg. rolls.

(B) HDPE/HMHDPE (HIGH DENSITY & HIGH MOLECULAR HIGH DENSITY POLYETHYLENE)

It is used in variety of applications and industries where excellent impact even at low temperature, high tensile strength, no moisture absorption, chemical and corrosion resistance properties are required.

Features :

- Good chemical and corrosion resistance
- Easy weldability and machinability
- Good thermoforming
- Good abrasion resistance
- Electrical insulating properties
- High strength
- High percentage elongation at break
- Usable at temp. of -50°C to +85°C
- No water absorption

Applications :

- Orthopaedic and Prosthetic Devices
- Light duty chain guides
- Thermoforming and material handling devices
- Water and Chemical Storage Tanks
- Liner for bulk material handling

Extruded Sheets :

Width	Length	Thickness
1200	2000	0.5 to 8 mm Natural & Black
1000	2000	0.5 to 8 mm Natural & Black
1500	10000	0.5 to 3 mm Rolls Natural & Black
1500	10000	1.0 to 5.0 mm HDGL Rolls
1500	3000	0.5 to 8.0 mm Natural & Black

\*Special sizes and thickness are available on demand.

Welding Rods :

3 mm dia to 5 mm dia available in desired lengths.

Also available on request  
LDPE sheets and HDPE double colour sheets



KBK HDPE Sheets



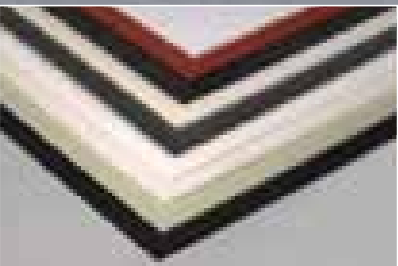
KBK HDPE Sheets



PPGL Roll



Coextruded Double Colour Sheets



PP Sheets

(C) ABS SHEETS

ABS Sheets (Acrylonitrile Butadiene Styrene) is the widely used engineering thermo- plastic and is formed by the polymerization of styrene and acrylonitrile on to thermoplastic rubber which is then melt compounded with styrene acrylonitrile. The combinations of the copolymers gives ABS excellent surface appearance, stronger, stiffer and tougher than high impact polystyrene and is also superior to it in its resistance to high temperatures and chemicals.

FEATURES :

- High rigidity and impact strength
- Excellent electrical properties, moisture and creep resistance
- Good chemical and stress cracking resistance against inorganic salt solutions, alkalies and many acids (except strong oxidizing acids)
- Easily machinable to close tolerances, tough & dimensionally stable
- Easily electroplated
- Excellent scratch resistance
- Excellent weathering resistance
- Good thermoforming & printability

APPLICATIONS :

- Automotive interior and exterior
- Aircraft interior trims
- Laboratory equipment
- Luggage, Office accessories, Toys
- Machine parts and rollers

STANDARD SIZES :

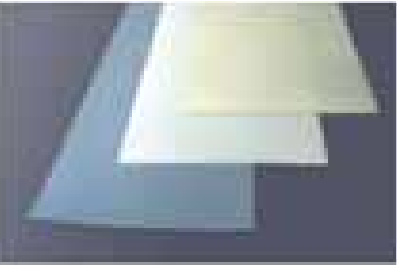
Width	Length	Thickness
1000	2000	0.5 mm to 8.0 mm
1220	2440	0.5 mm to 8.0 mm
1500	3000	0.5 mm to 8.0 mm

\*Special sizes and thickness are available on demand.

KBK ABS Embossed Glossy	Automotive interiors
KBK ABS Embossed Matt	Automotive interiors and exteriors
KBK ABS/ASA Embossed & Plain	Outdoor applications
KBK ABS ACRYLIC Embossed & Plain	Excellent scratch resistance and UV protection
KBK ASA Sheets	Attractive colour and outdoor applications
KBK ABS DUAL	Display and POP systems
KBK ABS FR UV	Fire retardant UV stabilised



ABS Embossed Sheets



ABS



ABS Sheets for Thermoforming



Sheets for PP Files & Folders