

Description

The Gepax* 8000 sheet has been specifically developed for outside applications where color stability is required. Gepax 8000 sheets combine extremely high impact performance with good stiffness over a wide temperature range (-30 to 110 °C). Gepax 8000 sheets provide:
UV – resistance and excellent formability.

Typical Property Values ♦

Property	Test Method	Unit	Value
Physical			
Density	ISO 53479	g/cm ³	1.20
Water absorption, equilibrium	ISO 62	%	0.35
Mechanical			
Tensile strength	ISO 527	MPa	55
Tensile modulus	ISO 527	MPa	2300
Tensile elongation, @ yield	ISO 527	%	6-7
@ break		%	100
Flexural strength, yield	ISO 178	MPa	100
Flexural modulus	ISO 178	MPa	2200
Izod Notched Impact 20 °C	ISO 180/1A	J/m	550
-20 °C		J/m	500
Gardner Impact 20°C	SABIC Method	J	>40
-20°C		J	>40
-40°C		J	>40
Thermal			
Vicat Softening Temp, Rate B/ 120	ISO 306	°C	135
DTUL, 1.82 MPa	ISO 53461	°C	125
Thermal conductivity	ATM C177	W/m °C	0.20
Ball Pressure Test 75 °C	IEC 335-1	Pass	Pass
Ball Pressure Test 125 °C	IEC 335-1	Pass	Pass
Mold shrinkage	ISO D1299	%	8
Thermal Expansion	ASTM D696	°C	7x10 ⁻⁵
Electrical			
Comparative Tracking Index	IEC 112/3	V	225.0
Comparative Tracking Index, M	IEC 112/3	V	125.0
Volume Resistivity	IEC 93	Ohm.m	10 ¹⁵
Surface Resistivity	IEC 93	Ohm	10 ¹⁵

♦ These property values have been derived from Lexan*resin data for the material used to produce this sheet product.

* Trademarks of SABIC Innovative Plastics IP BV

Processing

Gepax* 8000 sheet is an excellent candidate for thermoforming. It offers high, deep draw ratios, equal wall thickness distribution, and it can be formed into complex shapes using standard thermoforming equipment. Sandwich type heating systems give the best results. Gepax 8000 sheet has a forming temperature range of 185 - 205°C. When forming, a draft angle of at least 3° should be allowed, and post mold shrinkage of 0.6 - 0.8% taken into account.

Chemical Resistance

Gepax 8000 sheet has sufficient resistance to most mineral oils, greases, aliphatic hydrocarbons and acids under low or moderate stress levels. In applications where the Gepax 8000 sheet will come into contact with aggressive chemicals, specific (application related) testing is always advised. Effective painting systems can improve chemical resistance.

Pre-drying

It is important to ensure that Gepax 8000 sheets are free of moisture prior to thermoforming. A hot air circulating oven set at 120°C is recommended. Pre-drying times are:

Sheet thickness (mm)	Drying time (hrs.)
3	4
4	10
5	16
6	24



* Trademark of SABIC Innovative Plastics IP BV

Assembling

Parts made from Gepax 8000 sheet can be assembled with plastics, metals, rubber and other materials using many types of adhesive bonding, welding and mechanical fastening techniques. Further information and advice is available on request.

Fire test performance

Gepax sheet has good fire performance against many national fire codes dependent on thickness and color; please check your local sales office for details.

Product Availability

Product code:	Gepax 8000 sheet
Configuration:	2 side UV coextrusion, ABA
Standard size:	1250 x 2050mm 2050 x 3000mm
Gauges:	2.0 - 8.0mm
Textures:	Polished/Polished Suede/Polished Mat/Polished Haircell/Polished
Colors Standard:	Black 78927, Light Gray 78944, Off White 78943

Other colors/sizes are available by special request

Americas:
SABIC Innovative Plastics
Specialty Film & Sheet
One Plastics Avenue
Pittsfield, MA 01201
USA
Tel. (1) (413) 448 5400
Fax. (1) (413) 448 7506
Toll free: 1-800 451 3147

Europe:
SABIC Innovative Plastics
Specialty Film & Sheet
Plasticslaan 1
NL - 4612 PX Bergen op Zoom
The Netherlands
Tel. (31) (164) 292911
Fax. (31) (164) 293272

Pacific:
SABIC Innovative Plastics
Specialty Film & Sheet
1468 Nanjin Road (W)
26th Floor, United Plaza
200040 Shanghai, China
Tel. (86) 21 3222 4500
Fax. (86) 21 6289 8998

THE MATERIALS, PRODUCTS AND SERVICES OF SABIC INNOVATIVE PLASTICS HOLDING BV, ITS SUBSIDIARIES AND AFFILIATES ("SELLER"), ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH CAN BE FOUND AT <http://www.sabic-ip.com> AND ARE AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION OR RECOMMENDATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SELLER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SELLER'S PRODUCTS, SERVICES OR RECOMMENDATIONS. EXCEPT AS PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user is responsible for making its own determination as to the suitability of Seller's products, services or recommendations for the user's particular use through appropriate end-use testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. No statement by Seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of such product, service or design in a manner that infringes any patent or other intellectual property right.

SABIC Innovative Plastics is a trademark of Sabic Holding Europe BV

* Trademark of SABIC Innovative Plastics IP BV