

LEXAN™ 9604 SHEET

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ 9604 sheet offers all the benefits of standard, transparent polycarbonate sheet - excellent impact resistance, good stiffness and strength, high optical quality, excellent formability, relatively light weight - but it has significantly better flammability characteristics, making it suitable for a wide variety of applications in the transportation, electrical and electronic industries.

TYPICAL PROPERTY VALUES ◆

| PROPERTY | TEST METHOD | UNITS | VALUE |
|--|-------------|------------------|---|
| Physical | | | |
| Specific Gravity | ASTM D792 | g/m ³ | 1.26 |
| Water Absorption, Equilibrium, 24 Hrs | ASTM D570 | % | 0.20 |
| Light Transmission (avg.), .125" thickness | ASTM D1003 | % | 85 |
| Mechanical | | | |
| Tensile Strength | ASTM D638 | psi | |
| @ Yield | | | 9,500 |
| Ultimate | | | 9,000 |
| Elongation | ASTM D638 | % | 95 |
| Tensile Modulus | ASTM D638 | psi | 235,000 |
| Flexural Strength | ASTM D790 | psi | 13,500 |
| Flexural Modulus | ASTM D790 | psi | 370,000 |
| Compressive Strength | ASTM D695 | psi | 12,500 |
| Dynatup Impact Strength, | | | |
| 1/2" dia. dart, (gauge dependant)***, @ 73°F | ASTM D3783 | ft-lbs | 50 |
| Gardner Impact Strength, | | | |
| round tup (gauge dependent)***, @ 73°F | ASTM D3029 | in-lbs | >320 |
| Izod Impact Strength, (gauge dependant)*** | ASTM D256A | ft-lbs/in | |
| Notched @ 73°F | | | 2,4 |
| Unnotched @ 73°F | | | NB |
| Thermal | | | |
| Coefficient of Thermal Expansion | ASTM D696 | in/in/°F | 3.75 x 10 ⁻⁵ |
| Heat Deflection Temperature | ASTM D648 | °F | |
| @ 264 psi | | | 280 |
| Flammability | | | |
| UL Flammability** | UL 94 | - | V-0 (90 mils and above) V-2 (34-89 mils) |
| FAA Flammability @ 40 to 125 mils | FAR 25.853 | - | Passes A&B |
| ATS 1000 @ 40 to 125 mils | — | - | Pass |

◆ These property values have been derived from LEXAN™ resin data for the material used to produce this sheet product.

™ Trademarks of SABIC

** This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

*** Reported values based on .125" gauge thickness.

[UL File Number: E121562](#)

CONTACT US:

MIDDLE EAST AND AFRICA

SABIC Global Headquarters
PO Box 5101
Riyadh 11422
Saudi Arabia
T +966 (0) 1 225 8000
F +966 (0) 1 225 9000
E info@sabic.com

AMERICAS

Functional Forms
2500 City West Boulevard
Suite 100
Houston, TX 77042
USA
Inside sales:
Toll-free (800) 323 3783
F (888) 443 2033
E spinside.sales@sabic.com

EUROPE

Functional Forms
Plasticslaan 1
4612 PX
Bergen op Zoom
The Netherlands
T +31 164 293684
F +31 164 292272
E ff.info@sabic.com

ASIA PACIFIC

Functional Forms
2550 Xiupu Road
Pudong
201319 Shanghai
China
T +86 21 3222 4500
F +86 21 6289 8998
E ff.info@sabic.com



DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES ("SELLER") ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (i) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATING SELLER'S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller's materials, products, services or recommendations for the user's particular use through appropriate end-use and other 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. Statements by Seller concerning a possible use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of any material, product, service or design in a manner that infringes any patent or other intellectual property right. SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates, unless otherwise noted.

© 2021 Saudi Basic Industries Corporation (SABIC). All Rights Reserved.

Any brands, products or services of other companies referenced in this document are the trademarks, service marks and/or trade names of their respective holders.

www.sabic.com/sfs