

# LEXAN™ HPNGFF FILM

## PRODUCT DATASHEET

### DESCRIPTION

LEXAN™ HPNGFF film is a one-side coated anti-fog PET film. With an adhesive backing it is an excellent candidate for use in display case refrigeration units such as those found in grocery and convenience stores. It offers long-term anti-fog performance, abrasion resistance, impact resistance, and good optical clarity. LEXAN HPNGFF film also provides chemical resistance and anti-static properties. Typical applications include: Refrigerated cases, Instrument lenses & Display panels, Mirrors, Windows, Pool enclosures and Auto-Glass.

### TYPICAL PROPERTY VALUES

PROPERTY	ASTM TEST METHOD	UNITS USCS	VALUE	UNITS (METRIC)	VALUE
<b>MECHANICAL</b>					
Elongation at Break MD	ASTM D882A	ft-lb	150	N-m	203
Elongation at Break TD	ASTM D882A	ft-lb	100	N-m	135
Yield (nominal)		in <sup>2</sup> /lb	5,000	M <sup>2</sup> /kg	7
Yield Strength MD	ASTM D882A	PSI	14,000	Kg/m <sup>2</sup>	9,842,000
Yield Strength TD	ASTM D882A	PSI	14,000	Kg/m <sup>2</sup>	9,842,000
<b>THERMAL</b>					
Shrinkage MD (190C)		%	<2.5		
Shrinkage TD (190C)		%	<1.0		
<b>PHYSICAL</b>					
Thickness (Gauge)		mil	4	mm	0.1
Pencil Hardness	ASTM D3363	-	F		
Taber Abrasion	ASTM D1044	delta Haze	6-10		
<b>OPTICAL</b>					
Light Transmission	ASTM D1003	%	>88		
Haze	ASTM D1003	%	<0.5		
<b>ANTIFOG PROPERTIES</b>					
45 degree angle over 50C water bath		sec	>90		
<b>ADHESIVE PROPERTIES</b>					
180 degree peel on glass		oz	50 - 100	kg	1.4 - 2.8

◆ These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local SABIC representative or the SABIC Quality Services Department.  
Reported Values are based on 4mil gauge thickness unless otherwise noted.

™ Trademark of SABIC.

## CLEANING INSTRUCTIONS

### Suggested cleaning for cleaning anti-fog coated side of film

Gently wash sheet with a solution of mild soap and lukewarm water, using a soft, grit-free cloth to loosen any dirt or grime.

## PRODUCT AVAILABILITY

GRADE	GAUGE MM	WIDTH MM	LENGTH MTR
LEXAN™ HPNGFF film	0.102 (0.004")	1524 (60")	600 (2000ft)



## CONTACT INFORMATION

### SABIC CORPORATE HQ

PO Box 5101  
Riyadh 11422  
Saudi Arabia  
T +966 (0) 1 225 8000  
E [info@sabic.com](mailto:info@sabic.com)

### AMERICAS

SABIC  
Functional Forms  
2500 CityWest Boulevard  
Suite 100  
Houston, TX 77042  
USA  
Toll-free (800) 323 3783  
E [spinside.sales@sabic.com](mailto:spinside.sales@sabic.com)

### EUROPE

SABIC  
Functional Forms  
Plasticslaan 1  
4612 PX  
Bergen op Zoom  
The Netherlands  
T +31 (0)164 293684  
E [ff.info@sabic.com](mailto:ff.info@sabic.com)

### PACIFIC

SABIC  
Functional Forms  
2550 Xiupu Road Pudong  
201319 Shanghai  
China  
T +86 20 2866 6168  
E [ff.info@sabic.com](mailto: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.  
© 2022 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.