

LEXAN™ OQ8SA FILM

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ OQ8SA is a high-performance coated film, which offers very good chemical/abrasion resistance, together with unique processing characteristics in a sheeted finished. This highly durable sheeted film may help create new opportunities in graphic design whose potential benefits may include: anti-scratch, chemical resistance. LEXAN™ OQ8SA Film is available from .020" to .060" thickness. Masking are stick type on both sides.

TYPICAL PROPERTY VALUES

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
THERMAL						
Resistance to Humidity 720 @100°F, 100% R.H.	SABIC Test	-	Pass		-	Pass
Heat Aging @ 168 Hrs., 180°F	SABIC Test	-	Pass		-	Pass
PHYSICAL						
Density	ASTM D792	slug/ft ³	2.309	ISO 1183	g/m ³	1.19
Pencil hardness	ASTM D3363	-	HB-F	ISO 15184	-	HB-F
Area Factor	Calculation	ft ² /lb/mil	160	Calculation	m ² /kg/mm	0.83
Surface Tension	Dyne Pens	Dyne	36			
Taber Abrasion @25cycles	ASTM D1044	Delta Haze%	1.5	ISO 2813	Delta Haze%	1.5
@50cycles	ASTM D1044	Delta Haze%	2.5	ISO 2813	Delta Haze%	2.5
@100cycles	ASTM D1044	Delta Haze%	2.9	ISO 2813	Delta Haze%	2.9
@200cycles	ASTM D1044	Delta Haze%	3.5	ISO 2813	Delta Haze%	3.5
OPTICAL						
Light Transmission	ASTM D1003	%	>90			
Yellowness Index	ASTM E313	%	<1.0			
Haze	ASTM D1003	%	0.5			
Gloss over Flat Black @ 60°	ASTM D523-60	-	92.6	ISO 2813		92.6
@ 20°	ASTM D523-60	-	88.4	ISO 2813		88.4
Gloss over White @ 60°	ASTM D523-60	-	160	ISO 2813		160
@ 20°	ASTM D523-60	-	167	ISO 2813		167
ELECTRICAL						
Dielectric Constant @ 1.1 GHz	ASTM D150	-	2.83	IEC 60250	-	2.83
Dissipation Factor @ 1.1 GHz	ASTM D150	-	0.008	IEC 60250	-	0.008
Volume Resistivity	ASTM D257	Ω-cm	5.5E+15	IEC 60093	Ω-cm	5.5E+15
Surface Resistivity	ASTM D257	Ω/square	3.0E+14	IEC 60093	Ω/square	3.0E+14

◆ 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 0.8 mm (0.031") thickness film and are tested at machine direction unless otherwise noted. Values are based on 4mil gauge thickness unless otherwise noted.

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MANUFACTURING SPECIFICATIONS

NOMINAL GAUGE RANGES	MIN./MAX LIMIT OF NOMINAL
0.020-0.060" (0.5mm – 1.5mm)	-/+3%

CHEMICAL RESISTANCE

CHEMICAL	RESULTS
One hour continuous Surface Contact @73°F†	
Acetone	Pass
MEK	Pass
Toluene	Pass
Methylene Chloride	Pass
Isopropyl Alcohol	Pass
Kerosene	Pass
Ethyl Acetat	Pass
5% NaCl	Pass
40% NaOH	Pass
30% H ₂ SO ₄	Pass
24 Hour Surface Exposure @ 73°F †	
Olive oil	Pass
Nivea Sun Lotion SPF 30	Pass
Nivea SOS Hand Cream	Pass
Vaseline Intensive Care Hand Cream	Pass

† Failure constitutes any of the following: non-removable stain or cloudiness, blistering, delamination, or cracking of the coating or failure to Pass crosshatch tape adhesion.

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

Email

sfs.info@sabic-ip.com

Americas

Specialty Film & Sheet
1 Plastics Avenue
Pittsfield, MA 01201
USA
T 800 323 3783 (toll free)
T +1 413 448-6655
F (888) 443 2033
E sales.spinside@sabic-ip.com

Europe

Specialty Film & Sheet
Plasticslaan 1
4612 PX
Bergen op Zoom
The Netherlands
T +31 (0)164 293678
F +31 (0)164 293272
E sfs.info@sabic-ip.com

Asia Pacific

Specialty Film & Sheet
2550 Xiupu Road
Pudong
201319 Shanghai
China
T +86 21 2037 8188
F +86 21 2037 8288
E sfs.info@sabic-ip.com

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