

# LEXAN™ OQ8DA FILM

## PRODUCT DATASHEET

### DESCRIPTION

LEXAN™ OQ8DA is a high-performance dual 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™ OQ8DA 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
<b>MECHANICAL</b>						
Tensile Strength @ Ultimate	ASTM D882	psi	8800	ISO 527	MPa	60
Tensile Modulus	ASTM D882	psi	320000	ISO 527	MPa	2200
Tensile Elongation at Break	ASTM D882	%	6	ISO 527	%	6
Puncture Resistance (Dynatup)	ASTM D3763	Ft-lb/in	170		J/mm	9
<b>THERMAL</b>						
Coefficient of Thermal Expansion	ASTM E831	(x10 <sup>-5</sup> /°F)	0.29		(x10 <sup>-5</sup> /°C)	0.52
Resistance to Humidity 720 hrs @100°F, 100% R.H.	SABIC Test	-	Pass		-	Pass
Heat Aging @ 168 Hrs., 180°F	SABIC Test	-	Pass		-	Pass
<b>PHYSICAL</b>						
Density	ASTM D792	slug/ft <sup>3</sup>	2.309	ISO 1183	g/m <sup>3</sup>	1.19
Water Absorption, 24 hrs.	ASTM D570	% change	0.006	ISO 62	% change	0.006
Pencil hardness	ASTM D3363	-	HB-F	ISO 15184	-	HB-F
Area Factor	Calculation	ft <sup>2</sup> /lb/mil	160	Calculation	m <sup>2</sup> /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
<b>OPTICAL</b>						
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

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
<b>ELECTRICAL</b>						
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	$\Omega$ -cm	5.5E+15	IEC 60093	$\Omega$ -cm	5.5E+15
Surface Resistivity	ASTM D257	$\Omega$ /square	3.0E+14	IEC 60093	$\Omega$ /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
<b>One hour continuous Surface Contact @73°F†</b>	
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 <sub>2</sub> SO <sub>4</sub>	Pass
<b>24 Hour Surface Exposure @ 73°F †</b>	
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.

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