

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.

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