POLYVANTIS

PRODUCT DATASHEET

LEXAN™ 6A73 FILM

DESCRIPTION

LEXAN™ 6A73 Film is a co-extruded film with improved scratch resistance and transparent polished / fine matte surface finish. The film has excellent clarity, high heat resistance and excellent formability. LEXAN 6A73 Film also provide good dimensional stability and improved pencil hardness. Masking is available on polished sides.

TYPICAL PROPERTY VALUES*

PROPERTY	ASTM TEST METHOD	UNITS (USCS)	VALUE	ISO TEST METHOD	UNITS (SI)	VALUE
MECHANICAL						
Tensile Strength @ Yield	ASTM D882	psi	6788	ISO 527	MPa	46.8
Tensile Modulus	ASTM D882	psi	246564	ISO 527	MPa	1700
Tensile Elongation at Break	ASTM D882	%	6.7	ISO 527	%	6.7
Puncture Resistance (Dynatup)	ASTM D3763				J/mm	17.7
THERMAL						
Coefficient of Thermal Expansion						
CTE -20~60°C, crossflow	ASTM E831	($x10^{-5}$/°F)	0.24	ISO 11359-2	($x10^{-5}$/°C)	8.1
CTE -20~60°C, inflow	ASTM D831	($x10^{-5}$/°F)	0.23	ISO 11359-2	($x10^{-5}$/°C)	8.0
PHYSICAL						
Density	ASTM D792	$slug/ft^3$	2.33	ISO 1183	kg/m^3	1190
Water Absorption, 24 hrs.	ASTM D570	% change		ISO 62	% change	0.1
Surface Roughness min/max (Ra)				ISO 4288	µm	0.5-1.0
Surface Tension (Polish surface)	Dyne Pens	Dyne	>34			
OPTICAL						
Refractive index @25˚C						
Matte surface			1.49			
Polish surface			1.58			
Light Transmission	ASTM D1003	%	>90			
Yellowness Index	ASTM E313	%	<1			
Haze	ASTM D1003	%	>60			
Gloss over Flat Black –Matte Surface	ASTM D523-60	-				
@ 60°			5~6			

◆ These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local POLYVANTIS representative or the POLYVANTIS Quality Services Department. Reported values are based on 0.250 mm (0.010”) thickness film and are tested at machine direction unless otherwise noted.

MANUFACTURING SPECIFICATIONS

NOMINAL GAUGE RANGES	MIN./MAX LIMIT OF NOMINAL
0.007” (0.178mm)	-/+ 10%
0.010”-0.015” (0.25mm-0.375 mm)	-/+ 5%

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