Edge Lit Acrylic

TYPICAL PROPERTIES*				
Property	Test Method	Units	Values	
PHYSICAL				
Specific Gravity	ASTM D792	-	1.19	
Water Absorption	ASTM D570			
24 hrs @ 23°C		%	0.2	
2 hrs boiling water immersion		%	0.6	
MECHANICAL				
Tensile Strength	ASTM D638	psi	11,000	
% Elongation @ Break		%	7.6	
Modulus of Elasticity		psi	465,000	
% Elongation @ Yield		%	6.0	
Flexural Strength		psi	14,700	
Flexural Modulus	ASTM D790	psi	461,000	
Impact Strength				
Compressive Strength (x-y plane)	ASTM D695	psi	83,300	
Compressive Stress @ Yield		psi	18,000	
Compressive Modulus		psi	279,000	
Charpy (un-notched)	ASTM D256	ft-lb/in/in	5.0	
Charpy (notched)	ASTM D6110	J/m	20.8	
Shear Strength (punch tool)	ASTM D732	psi	11,200	
Izod (procedure A)	ASTM D256	ft-lb/in	0.32	
Rockwell Hardness	ASTM D785	,	M-100	
Residual Shrinkage (Internal Strength)	ASTM D702	%	2.5 maxim	
OPTICAL		·-		
Refractive Index	ASTM D542	_	1.49	
Haze	ASTM D1003	%	5 maximi	
Light Transmission	ASTM D1003	%	89 minim	
Yellowness Index (YI)	7.611121000	-	< 0.5	
THERMAL				
	_	°F	175	
Maximum Continuous Service Temperature	_	Btu-in/ft2/ hr/°F	1.45	
Coefficient of Thermal Conductivity	ASTM D648	°F	200	
Deflection Temperature Under Load, 264 psi	ASTM D696	in/in/°F	3.5 E-0	
Coefficient of Linear Thermal Expansion	-	Btu/lb/°F	0.35	
Specific Heat	ASTM D2843	%	13.5	
Smoke Density Rating	ASTM E84	-	750	
Smoke Developed Index	ASTM E84	_	95	
Flame Spread Index	7.0111204	Btu/lb	11,300	
Specific Energy	ASTM D1929	°F	750	
Self Ignition Temperature	ASTM E162	-	155	
Radiant Panel, Flame Spread index	ASTM D635	in./min.	0.71	
Horizontal Burn	UL94	-	HB	
UL Horizontal Burn Rating				
ELECTRICAL				
Volume Resistivity Surface	ASTM D257	Ohm/cm	>3.912E+	
Resistivity Dielectric Strength	ASTM D257	Ohm/sq	> 5.237E-	
(2000v/sec) Dielectric Constant, k	ASTM D149	V/mil	354	
60 Hz		Hz	3.3	
I KHz	ASTM D150	Hz	3.0	
I MHz	7,511715150	Hz	2.7	
Dissipation Factor, D		112	۷.,	
60 Hz		Hz	0.00	
1 KHz			0.06	
1 MHz		Hz	0.04	
		Hz	0.02	
Arc Resistance	ASTM D495		No tracki	

*All listed test values are on 0.236" thickness

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