



## OPTIX DA – THE NEXT GENERATION OF ENGINEERED THERMOPLASTIC SHEET DESIGNED FOR DIGITAL PRINTING

### ACRYLIC SHEET ENGINEERED FOR OPTIMAL ADHESION OF UV CURING INKS WITHOUT PROMOTERS

OPTIX® DA eliminates the need for the costly and often time-consuming task of applying an adhesion promoter prior to printing. Produce high quality, vibrantly-colored prints with the UV curable inks that are utilized in today's UV digital flatbed printers.

#### OPTIX® DA Digital Acrylic Sheet

- » Produced with a specially formulated acrylic polymer that promotes optimal adhesion of UV curing inks without the need for an adhesion promoter prior to ink application
- » Developed and tested with a leading manufacturer of digital UV flatbed printers and various ink suppliers
- » Available in clear, 7328 white and non-glare



OPTIX® E-DA, Erasable Digital Acrylic, has the same high quality direct-to-print surface on one side as the original Optix® DA, with the added benefit of an abrasion and chemical-resistant coating on the other. Perfect for contemporary marker board designs and applications where anti-graffiti properties are desired.

Contact Plaskolite for thickness and size availability.

**PLASKOLITE**

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## Typical Properties

Property	Test Method	Units	Values
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	-	1.19
Optical Refractive Index	ASTM D542	-	1.49
Light Transmission	ASTM D1003		
Total		%	92
Haze		%	2
Sound Transmission	ASTM E90 / E413	db	27
Water Absorption	ASTM D570	% By wt	0.4
Shrinkage	ASTM D702	%	<5
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	psi	11,030
Tensile Elongation, Max.	ASTM D638	%	5.8
Tensile Modulus of Elasticity	ASTM D638	psi	490,000
Flexural Strength, Max.	ASTM D790	psi	17,000
Flexural Modulus of Elasticity	ASTM D790	psi	490,000
Izod Impact Strength, Molded Notch	ASTM D256	ft-lb/in	0.4
Izod Impact Strength, Milled Notch	ASTM D256	ft-lb/in	0.28
Tensile Impact Strength	ASTM D1822	ft-lb/in <sup>2</sup>	20
Abrasion Resistance - Change in Haze	ASTM D1044		
0 cycles		%	0
50 cycles		%	24
10 cycles		%	11.2
200 cycles		%	24.9
Rockwell Hardness	ASTM D785	-	M-95
<b>THERMAL</b>			
Maximum Recommended Continuous Service Temperature	-	°F	170-190
Softening Temperature	-	°F	210-220
Melting Temperature	-	°F	300-315
Deflection Temperature @ 66 psi (0.45 MPa)	ASTM D648	°F	207
@ 264 psi (1.8 MPa)		°F	203
Coefficient of Thermal Expansion (-30 to 30°C)	ASTM D696	in/(in-°F) x 10 <sup>-5</sup>	3.0
Thermal Conductivity	ASTM C-177	BTU-ft/hr-ft <sup>2</sup> -°F)	0.075
Flammability (Burning Rate)	ASTM D635	In/minute	1.019
Smoke Density Rating	ASTM D2843	%	3.4
Self-Ignition Temperature	ASTM D1929	°F	833
Flame Spread Index	ASTM E-84	-	115
Smoke Developed Index	ASTM E-84	-	550
<b>CHEMICAL</b>			
Resistance to Stress - Critical Crazing Stress to:	ARTC Modification of MIL-P6997		
Isopropyl Alcohol		psi	900
Lacquer Thinner		psi	500
Toluene		psi	1,300
Solvesso 100		psi	1,600

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.