MULFORD
PLASTICS
delivering solutions

DIGITAL PRINT ACRYLIC SHEET

Optix® Digital Acrylic

Discover an acrylic sheet that doesn't require an adhesion promoter prior to ink application.

Often printers sacrifice the outstanding clarity of acrylic sheet, for the good UV ink adhesion properties offered by other plastic sheet substrates. Not anymore! With Optix Digital Acrylic, the time-consuming task of applying an adhesion isn't necessary.

You can produce high-quality, vibrantly coloured prints utilising UV digital flatbed technology, without the costly pre-press treatment – saving you time and money!

Key Features

- Digital printers that use UV curable ink technology
- 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 leading manufacturer of digital UV flatbed printers and various ink suppliers
- Contact Mulford Plastics for thickness and sheet size availability

Product Applications

- Point of sale promotions
- Point of sale advertisements
- Flatbed printing
- Signage
- Shop fit out
- Exhibition

DIGITAL PRINT ACRYLIC SHEET

TECHNICAL DATA SHEET

PHYSICAL PROPERTIES	ASTM METHOD	UNITS	VALUES
Specific Gravity	ID-792		1.19
Optical Refractive Index	D-542		1.59
Light Transmitted	D-1003		
Total		%	92
Haze		%	2
Sound Transmission	E 90	db	27
	E 413		
Water Absorption	D-570	% By Weight	0.40
Shrinkage	D-702	% Shrinkage	<5%
MECHANICAL			
Tensile Strength - Max	D-638	psi	11,030
Tensile Elongation - Max		%	5.8
Tensile Modulus of Elasticity		psi	490,000
Flexural Strength	D-790	psi	17,000
Flexural Modulus of Elasticity		psi	490,000
Izod Impact Strength - Molded Notch	D-256	ft-lb/in Notch	0.4
Izod Impact Strength - Milled Notch		ft-lb/in Notch	0.28
Tensile Impact Strength	D-1822	ft-lb/in^2	20
Abrasion Resistance	D-1044		
Change in haze		Haze, %	0
0 cycles		Haze, %	11.2
10 cycles		Haze, %	24.0
50 cycles		Haze, %	24.9
200 cycles			M-95
Rockwell Hardness	D-785		
THERMAL			
Max Recomm. Continuous Service Temp		°F	170 - 190
Softening Temperature		°F	210 - 220
Melting Temperature		°F	300 - 315
Deflection Temperature	D-648		
264 psi		°F	203
66 psi		°F	207
Coefficient of Thermal Expansion	D-6696	in / (in-°F) x 10-^{5}	3.0
- 30 to 30°C			
Thermal Conductivity	C-177	BTU-ft/ (hr-ft^2 -°F)	0.075
Flammability (Burning Rate)	D-635	in/minute	1.019
Smoke Density	D-2843	%	3.4
Self-Ignition Temperature	D-1929	°F	833
Flame Spread Index	E-84		115
Smoke Develop Index			550
CHEMICAL			
Resistance to Stress - Critical Crazing Stress to:	ARTC Modification of MIL-P-6997		
Isopropyl Alcohol		psi	900
Lacquer Thinner		psi	500
Toluene		psi	1300
Solvesso 100		psi	1600

This specification provides typical data to the best of our knowledge at the time of publishing. Due to our inability to control conditions of use and application, we are unable to make any recommendations or suggestions. Mulford International nor any of their suppliers assume any liability for use of information presented.

AUST 1300 MULFORD (1300 6853673) **NZ** 0800 MULFORD (0800 6853673)

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