



ACRYLIC FILTERS

White Electronic Designs contrast enhancement filters are available for all types of electronic displays. The acrylic-based filters are available in a variety of thicknesses and colors, and can be provided with a cast-in non-glare surface, a non-glare hardcoat surface or a glossy surface. The non-glare surface reduces operator eye-strain and headaches by improving the readability of displayed information even under the most adverse lighting conditions. Hardcoating produces a surface that is resistant to abrasion and chemical attack.

TECHNICAL DATA

The acrylic base material meets or exceeds the requirements of L-P-391 and ASTM-D702-64T.

WEATHERABILITY

The acrylic material shows the same excellent weatherability as standard acrylic sheet, having extreme resistance to yellowing or other degradation under ultra-violet exposure.

MECHANICAL:		
Tensile Strength	ASTM-D-638	10,500
Tensile Modulus	ASTM-D-638	0.47
Impact Strength Notched Izod	ASTM-D-256	0.5
Flexural Strength	ASTM-D-790	16,500
Hardness, Barcol	Spring Instrument	50
Hardness, Rockwell (M)	ASTM-D-785	98
OPTICAL		
Haze	ASTM-D-1003	1
Luminous Transmittance	ASTM-D-1003	92
Light Reflectance	ASTM-D-791	96
THERMAL		
Heat Distortion Temperature	ASTM-D-648	204-209
Coefficient of Linear Thermal Expansion	ASTM-D-696	4 x10 ⁻⁵ -100 degrees F average
MISCELLANEOUS		
Specific Gravity	ASTM-D-792	1.19
Water Absorption (Wt. Gain)	ASTM-D-570	0.2



ORDERING INFORMATION

PANELVIEW MATERIAL CODES			
Color	Color No.	Display Type	Material Code *
Gray (12%)	N006	Vacuum Fluorescent	-2163-XX
Gray (22%)	N034	Vacuum Fluorescent	-2154-XX
Gray (32%)	N017	EL and any single- or multi-color	-2174-XX
Gray (38%)	N005	EL and any single- or multi-color	-2134-XX
Gray (43%)	N030	EL and any single- or multi-color	-2117-XX
Gray (60%)	N003	EL and Plasma	-2109-XX
Red	R002	HyperRed LED/IR Application	-2104-XX
Red	R004	Standard LED	-2161-XX
Red	R005	Standard LED	-2123-XX
Green	G002	Vacuum Fluorescent	-2105-XX
Green	G003	LED and Vacuum Fluorescent	-2121-XX
Green	G007	Standard LED	-2185-XX
Green	G008	Plasma/LED	-2169-XX
Green	G010	Vacuum Fluorescent/LED	-2137-XX
Aqua	G004	Vacuum Fluorescent	-2131-XX
Aqua	G015	Vacuum Fluorescent	-2191-XX
Amber (32%)	A002	EL and Plasma	-2107-XX
Blue	B007	Vacuum Fluorescent	-2197-XX
Blue	B003	Vacuum Fluorescent	-2111-XX
Rose	S004	Vacuum Fluorescent	-2146-XX
Rose	S005	Vacuum Fluorescent	-2179-XX
Rose	S006	Vacuum Fluorescent	-2112-XX
Clear	C001	LCD	-2102-XX

* Material Code shown is for 0.060" thickness (standard). The following thicknesses - also available: 0.030", 0.093", 0.125", 0.187, and 0.250". Thickness tolerance is +/- 0.007" or 10%, whichever is greater.

MATERIAL CODE SUFFIX FOR SURFACE FINISH	
SURFACE FINISH TYPE	CODE
Hardcoat, 54 gloss units (matte)	H
Hardcoat, 75 gloss units (matte)	J
Hardcoat, water-clear (glossy)	W
Cast-in Non-Glare	N
Glossy	G
Anti-Reflective	A