

Spec. Number CF-1
Date 2006
Revision 1

Color Filters

Optical Thin Films can be used to produce filters that transmit colors of well-defined spectral characteristics for applications like display and theatrical lighting. These filters are superior to other methods such as filter glass and gels in color saturation and durability. Typical colors include red, blue, green, yellow and neodymium.

Characteristic	Test/Attribute	Indication
Wavelength Reflection	Customer specified	The wavelength or series of wavelengths transmitted.
Angle of Incidence	Typically 0°	
Coating Uniformity	Will vary with substrate geometry	N.A.
Adhesion	Tape test	How well the film adheres to the substrate
Heat Testing	550°C for 12 minutes	Ability of the film to withstand heat
Operating Temperature	Oven test	How well the film will withstand operating temperatures
Thermal Shock	20°C water / 400°C oven cycle 3 times	Ability of film to withstand fast temperature changes
Humidity	24 hours at 120 +/-4 °F, RH of 95 to 100%.	Indicates resistance to heat and moisture combination
Substrate Specifications	Customer specific	
Cosmetics Specifications	Customer specific	