FILTERS and DIFFUSERS
For All Flat Panel Displays + Light Guides & Front/Rear Projection Screens

• Precision Thin Sheet
• Precision Sheet Colors
• Precision Grey Smoke Filters
• Precision High Temp Sheet
• Laser Scanner Filters
• Hard Coat Sheet
• Super Hardcoat Sheet
• Nonglare Filters
• Anti-Reflection Filters
• NIR Filters
• Anti-Bacteria Filters
• UV Cut Filters
• UV Transmission Filters
• IR Cut Filters
• Low Moisture Absorbing Acrylic Sheet
• Light Guide Reflector Sheet
• Light Guide Panels
• DR-IA Diffusion Reflector
• DR-IIA Transmissive Diffusing Reflector
• DR-IIICX Light Diffusing Filters
• DR-IIISX Light Shielding Diffusion Filters
• DR-IV Light Scattering Panels and Shapes

CLAREX® Blue Ocean™ Front and Rear Projection Screens

Exclusive North American Distributor

CLAREX® OPTICAL GRADE CELL-CAST ACRYLIC

Astra Products
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MORE INFORMATION - SPECIFICATIONS - OPTICAL DATA
www.AstraProducts.com

ISO 9001:2008

RoHS
Precision Thin Cast Acrylic Sheet (PMMA) affords unsurpassed optical properties, surface smoothness, high transmission (clear = 93%). Available from 0.2mm (.008") to 5mm (.197"). No birefringence / retardardation. Many surface options, coatings, color / transmission available.

Precision Cast Acrylic Sheet Colors — Virtually any color/medium available from 0.5mm (.020") thickness.

Precision Grey Smoke Filters are available in a range of transmissions. Dead front appearance when backlight is not active; contrast enhancement when display is illuminated.

Precision High Temp Cast Acrylic Sheet — Continuous working temp 95°C.

Low Moisture Absorbing Cast Acrylic Sheet — 30% less absorption than our standard cast acrylic. Reduces outgassing and improves dimensional stability.

Hard Coat Sheet — Weatherable hardcoat one or both sides. Pencil Hardness 6-8H. Good chemical resistance. Smooth or textured surfaces.

Super Hardcoat Sheet — 9H

Low Friction Hardcoat Sheet — Scratch resistant coating with low friction resists fingerprinting/smudging and facilitates cleaning.

Nonglare Filter Sheet optimizes display characteristics by eliminating unwanted reflections. There are five non-glare surface finishes. Available in scratch-resistant and a variety of colors and coatings.

Antireflection (AR) Filters multi-layer coatings reduce reflection/increase transmission. Additional coatings prevent surface scratching and smudging. AR Coat Filters may be combined with non-glare surfacing to improve anti-reflection. Any color.

NIR (Infra-Red) Filters transmit NIR and absorb visible rays. There are five types available, with cut off from 700nm to 820nm. Excellent optical characteristics without double refraction. Smooth or nonglare, scratch resistant.

UV Cut Filters protect displays from ultraviolet. Five types of ultra-violet absorption filters, cutoffs from 370nm - 480nm. Available smooth or nonglare surface and/or scratch-resistant option.

UV Transmission Filters transmit ultra-violet (80% at 300nm) and offer excellent optical characteristics without double refraction. Available smooth, non-glare, scratch resistant.

IR Cut Filters are available in polycarbonate and acrylic, 1mm (.040") thick. Useful in NVIS applications to eliminate NIR emissions.

Laser Scanner Filters maximize transmission of 630 - 670nm laser for scanner applications. The surface may be treated with anti-relection (AR) coating to reduce reflection. Available hardcoated one or both sides. Optional coatings prevent surface scratching and smudging.

Anti-Bacteria Filters are hygienic window filters. Specialized coatings prevent reproduction of bacteria. Optically excellent with scratch resistant coating - ideal choice for touch screens.

Light Guide Reflector Sheets developed for side lamp LCD units of PMMA acrylic. Excellent conductor of light with diffusion reflection.

Light Guide Panels for side lamp LCD units — an excellent conductor of light. These panels optimize uniformity and brightness of backlights.

DR-IA Diffusion Reflector — DR-IA Diffusion Reflectors uniformly reflect external light. Wide palette of colors available

DR-IIA Transmissive Diffusing Reflectors for light reflection and rear light diffusion. Wide palette of colors available.

DR-IIICX Light Shielding Diffusion Filters for LCD backlights are specially formulated for direct backlight applications incorporating high bright light sources, particularly LED's. Available with light transmission ranging from 5% to 40% in 5% increments.

DR-IV HSOT Light Scattering Panels & Shapes are polymerized and provide optimal inside scattering and illumination for the top surface from an edge light source. Effective illumination demonstrates a +30% improvement over conventional light guide panels.

CLAREX® Blue Ocean™ Front and Rear Projection Screens and Clear Projection Screens are structured and non-structured acrylic panels that maximize brightness and contrast, accurate reproduction. Panels can be bent or formed and are available in a wide variety of thicknesses, sizes and coatings.