

CLAREX®

Precision Filter

Precision Filter - Standard Clear Filter Flat 001

- Optical Grade Cell-Cast Acrylic Sheet with flat (glossy) surface
- Higher molecular weight than extrusion PMMA sheet and Injection molding PMMA.
- No retardation (No Birefringence)
- High transmission: Normal grade 93%, Hard coat grade 92%
- Low Haze: 0.1%
- Excellent smooth surface
- Excellent weatherability and durability
- Excellent surface hardness (2H uncoated, 6-8H scratch resistant coated)
- Available in wide range of thickness (0.2mm to 5.0mm)
- Available in any color/light transmission
- Ultra-smooth sheet surface
- Available in a wide selection of matte surfaces and various coatings
- Available machining and printing to meet your application

PMMA Physical Properties

| Properties | Test Method | | Unit | Normal Grade | Hard Coat Grade |
|-------------------------------------|--|-------|-------------------|-----------------------|-----------------------------------|
| | JIS | ASTM | | | |
| OPTICAL | | | | | |
| Refractive Index | K7142 | D-542 | - | 1.49 | 1.49 (Material) 1.53 (Surface) |
| MECHANICAL | | | | | |
| Elongation | K7162 | D-638 | % | 5 | 3 |
| Tensile Rupture Strength | K7162 | D-638 | MPa | 70 | 50 |
| Flexural Rupture Strength | K7171 | D-790 | MPa | 118 | 60 |
| Flexural Modulus | K7171 | D-790 | MPa | 3.2 x 10 ³ | 3.2 x 10 ³ |
| Impact Strength (Izod) | K7110 | D-256 | MPa | 2.0 | - |
| Rockwell Hardness | K7202 | D-785 | M scale | 100 | - |
| Charpy Impact Strength | K7111 | D-256 | KJ/m ² | 17 | - |
| Pencil Hardness | K5600 | - | H | 2-3 | 6-8 |
| THERMAL | | | | | |
| Heat Distortion Temperature | K7191-2(A) | D-648 | °C | 108 | 110 |
| Coefficient of Thermal Expansion | K7197 | D-696 | cm/cm/°C | 7 x 10 ⁻⁵ | 7 x 10 ⁻⁵ |
| Coefficient of Thermal Conductivity | A1412 | C-177 | W/m°C | 0.17 | 0.17 |
| ELECTRICAL | | | | | |
| Volume Resistance | K6911 | D-257 | Ωcm | >10 ¹⁶ | >10 ¹⁶ |
| Surface Resistance | K6911 | D-257 | Ω | >10 ¹⁶ | >10 ¹⁶ |
| CHEMICAL RESISTANT | | | | | |
| Acetone | Test Condition : Tested after immersing for 24 hours ○ ... no change △ ... a little change x ... changed | | | △ | ○ |
| Methyl Alcohol (50%) | | | | ○ | ○ |
| Detergent | | | | ○ | ○ |
| Sulfuric acid (10%) | | | | ○ | ○ |
| Caustic soda (10%) | | | | ○ | ○ |
| Dichloromethane | | | | x | ○ |
| Kerosene | | | | ○ | ○ |
| MISCELLANEOUS | | | | | |
| Specific Gravity | K7112 | D-792 | - | 1.19 | 1.19 |
| Water Absorption | K7209 | D-570 | % | 0.3 | 0.3 |
| Flammability | UL Standard | | ≥0.8mm thick | 94HB | 94HB |

These are our experimental measured values in 3.0mm thick. Specifications are subject to change at any time.

CLAREX® Non-Glare Filter

Non-Glare Filter (Anti-Glare Filter)

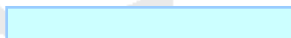
Standard Non-Glare

| Non-Glare Texture | Total Light Transmittance | Haze | Gloss Value |
|----------------------------|---------------------------|-------|-------------|
| EX30 | 91% | 7.0% | 45 |
| No.1 | 92% | 1.9% | 55 |
| No.2 | 90% | 6.3% | 35 |
| No.3 | 97% | 90.0% | 2 |
| No.9 | 92% | 1.0% | 78 |
| EX20 | 92% | 4.0% | 57 |
| EX70 | 92% | 3.0% | 72 |
| M-55 | 90% | 17.0% | 25 |
| Precision Flat (reference) | 93% | 0.1% | 118 |

- CLAREX Non-Glare Sheet diffuses surface reflection and increase the legibility of the display.
- Very fine etched surface filter (not a coating or lamination)
- Recommended as front panel for PC, Touch Panels
- Excellent Weatherability and Durability
- Available with hard coat for scratch resistant
- Available in any transmission and color
- Available in a wide range of thicknesses (0.2mm to 5.0mm)
- Available machined/printed to meet your application

Available Non-Glare surface one side or both sides

Precision Flat (Normal type)



One side Non-Glare type



Both sides Non-Glare type



Front Panel usage example

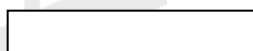


Standard Hard Coat Filter over 0.3mm RH10 Flat 001, RH20 Flat 001

- High performance scratch resistant coating
- Excellent surface hardness (6~8H) and adhesion strength of coating
- High transmission 92%
- Low haze 0.1%
- Excellent smooth surface roughness
- Available thicknesses: Ultra thin 0.3mm to 5.0mm
- Single side coating and double side coating



Normal Type



Single Side Hard Coat RH10 Type



Double Side Hard Coat RH20 Type



PMMA Physical Properties

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| THERMAL | | | | | |
| Heat Distortion Temperature | K7191-2(A) | D-648 | °C | 108 | 110 |
| Coefficient of Thermal Expansion | K7197 | D-696 | cm/cm/°C | 7 x 10 ⁻⁵ | 7 x 10 ⁻⁵ |
| Coefficient of Thermal Conductivity | A1412 | C-177 | W/m°C | 0.17 | 0.17 |
| ELECTRICAL | | | | | |
| Volume Resistance | K6911 | D-257 | Ωcm | >10 ¹⁶ | >10 ¹⁶ |
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| CHEMICAL RESISTANT | | | | | |
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| Methyl Alcohol (50%) | | | | ○ | ○ |
| Detergent | | | | ○ | ○ |
| Sulfuric acid (10%) | | | | ○ | ○ |
| Caustic soda (10%) | | | | ○ | ○ |
| Dichloromethane | | | | x | ○ |
| Kerosene | | | | ○ | ○ |
| MISCELLANEOUS | | | | | |
| Specific Gravity | K7112 | D-792 | - | 1.19 | 1.19 |
| Water Absorption | K7209 | D-570 | % | 0.3 | 0.3 |
| Flammability | UL Standard | | ≥0.8mm thick | 94HB | 94HB |

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Super Hard Coat Filter**RHG20 001 Standard type****RHG20 LA1-001 Low-water absorption type**

- Pencil hardness 9H
- Available in a wide range of thicknesses (0.3mm to 5.0mm)
- Single side coat or double side coat
- Available in Non-Glare surface on one side or both sides
- Excellent smooth surface

| Physical Properties | Unit | Standard Hard coat | Super Hard coat | Super Hard coat Low-water absorb |
|-------------------------------------|----------|----------------------|-----------------|----------------------------------|
| | | RH20 001 | RHG20 001 | RHG20 LA1-001 |
| Pencil Hardness | | 6-8H | 9H | 8H |
| Heat Deflection Temperature | °C | 110 | 110 | 115 |
| Maximum Recommended Continuous Temp | °C | 80 | 80 | 85 |
| Total Light Transmittance | % | 92 | 92 | 92 |
| Haze | % | 0.1 | 0.2 | 0.2 |
| Coating Adhesion | | 100/100 | | |
| Abrasion Resistant | | No scratch | | |
| Coefficient of Thermal Expansion | cm/cm °C | 7 × 10 ⁻⁵ | | |

* Value provided cannot be guaranteed in your application due to circumstances beyond our control.

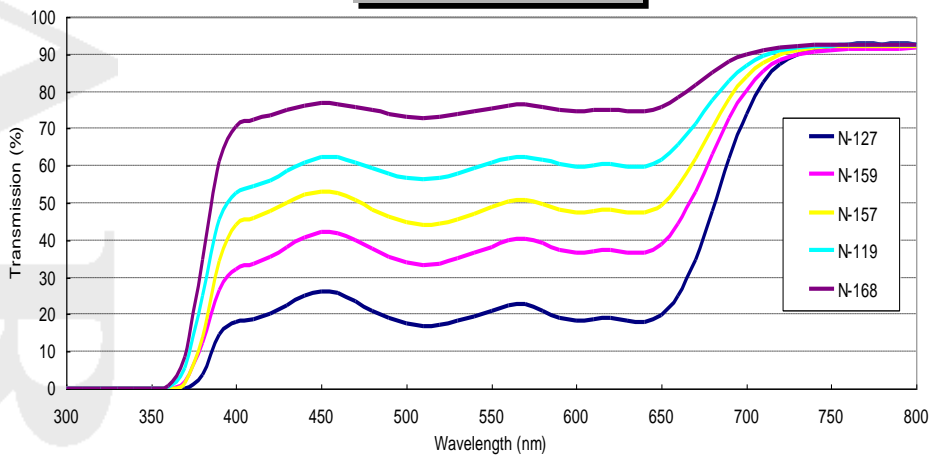
Test Condition

- Pencil Hardness - 45 degree at 1kg load (JIS K5600)
- Coating Adhesion - Cross cut measurement (100 squares)
- Abrasion Resistant - #0000 Steel wool / 10cycle at 1kg load
- Total Light Transmission - Measured by haze meter (JIS K7361-1)
- Haze - Measured by haze meter (JIS K7136)
- Heat Deflection Temp. - JIS K7191-2(A)
- Coefficient of Thermal Expansion - JIS K7197

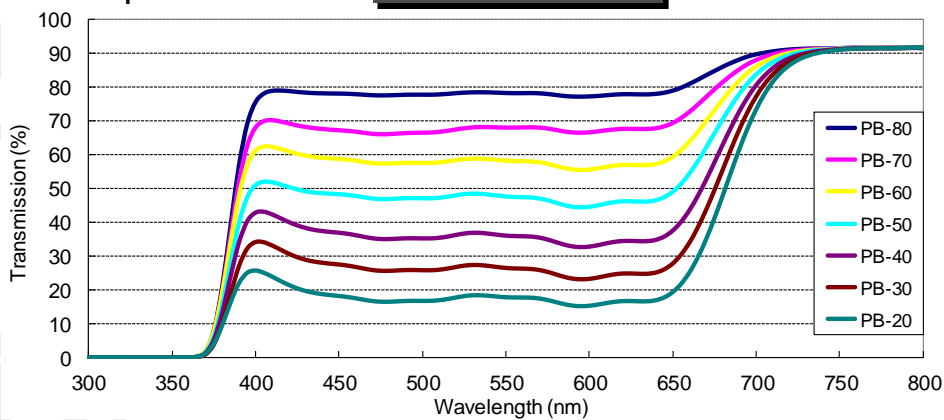
Smoke Color Filter

- Enhance contrast of display
- Available in any transmission and color
- Available with scratch resistant (surface hardness 6-8H)
- Available in wide range of thicknesses (0.5mm to 5.0mm)
- Available machined/printed to meet your application

Gray Smoke Colors



Black Smoke Colors

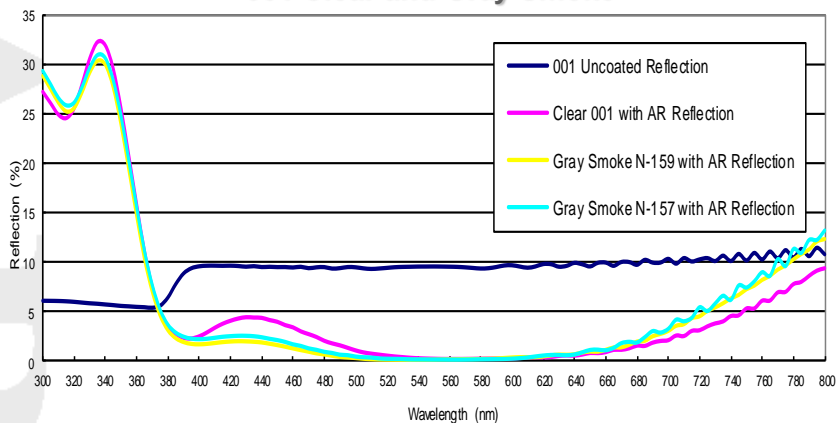


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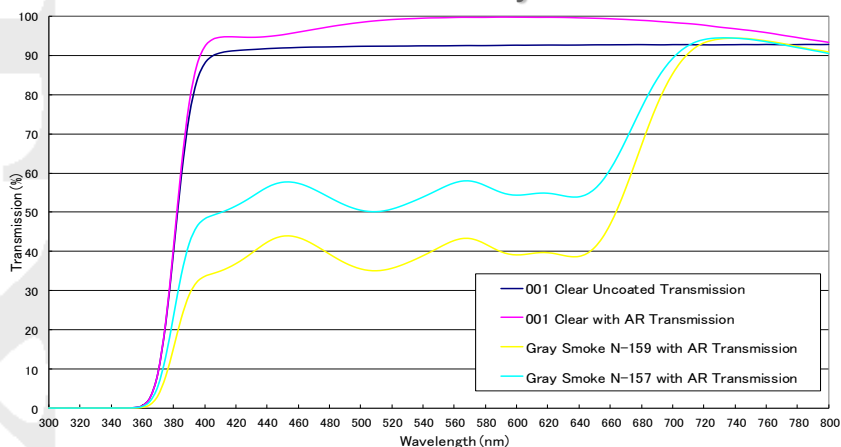
AR (Anti-Reflection) Coat Filter

- Excellent Anti-reflection performance, under 0.5% at 550nm
- High total light transmission, over 98% at 550nm
- Excellent surface Hardness : 6~8H
- Anti-smudge coat on top surface prevents stains
- Available in a wide range of thicknesses (0.3mm to 5.0mm)
- Available machined/printed to meet your application

Reflection comparison
001 Clear and Gray Smoke



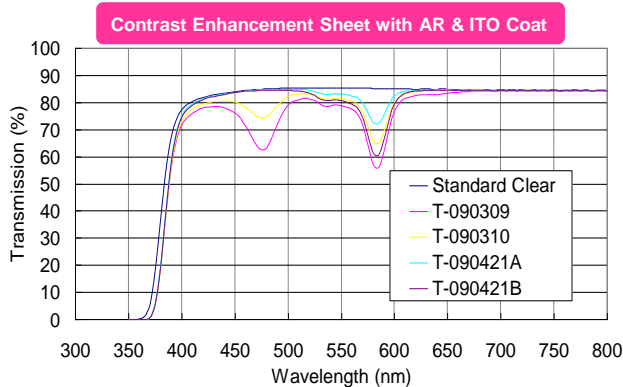
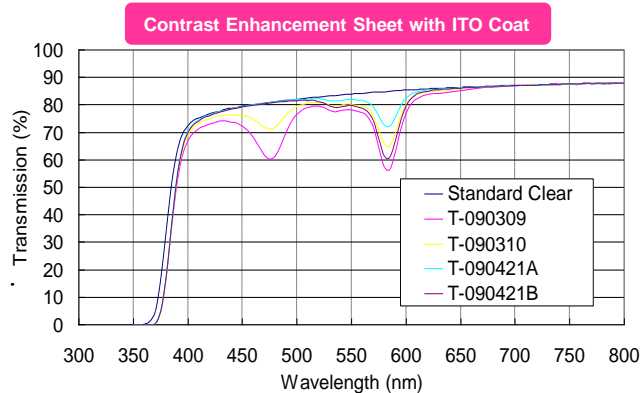
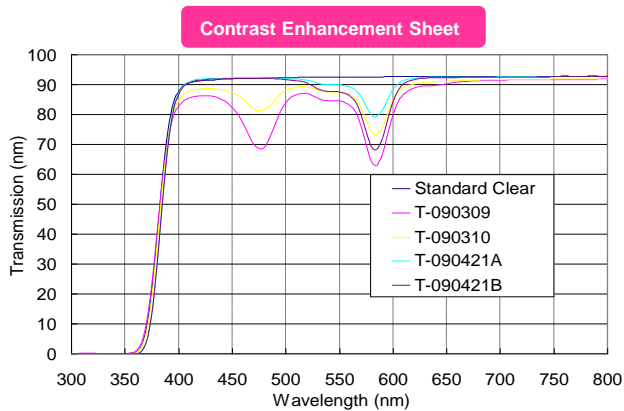
Transmission comparison
001 Clear and Gray Smoke



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Contrast Enhancement Filter for touch panels

- Reduces yellow tint caused by ITO coating
- Improved black
- Available in customized spectrum curve
- Available with scratch resistant (surface hardness 6-8H)
- Available in Low-water absorption LA-1 type
- Excellent weatherability, durability and impact resistant
- Available in a wide range of thicknesses (0.5mm to 5.0mm)



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UV Cut Filter

Standard Products

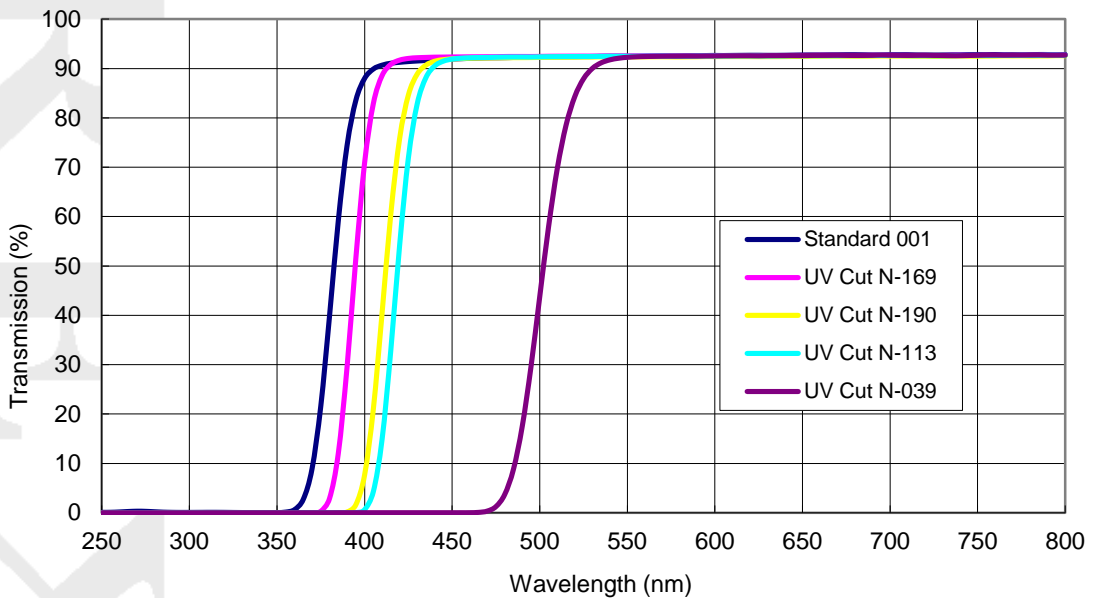
N-169 : absorb UV under 380nm

N-190 : absorb UV under 390nm

N-113 : absorb UV under 400nm

N-039 : absorb UV under 470nm

- Absorb UV ray in range from 370nm ~ 480nm
- Excellent Weatherability and Durability
- Excellent surface Hardness (6-8H)
- Available with Non-Glare surface
- Available in a wide range of thicknesses (0.2mm~5.0mm, over 0.5mm for N-039)
- Available machined/printed to meet your application



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UV Transmission Filter

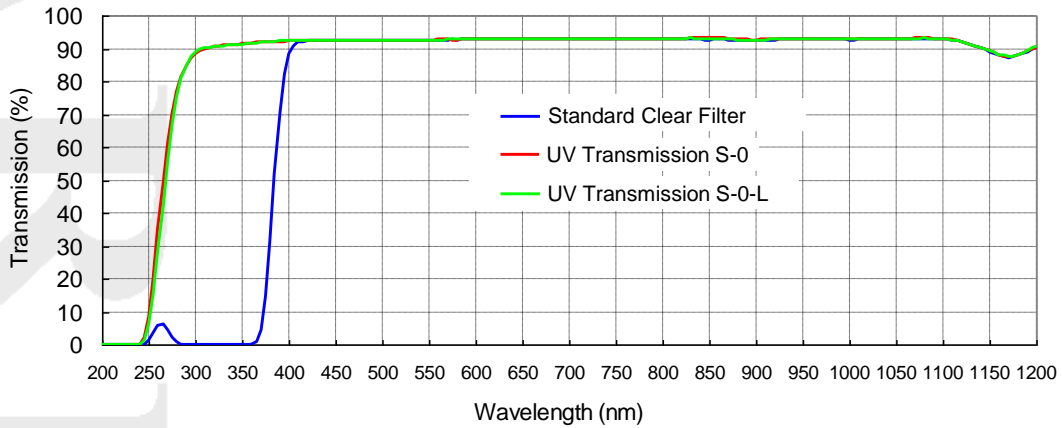
Standard Products

S-0

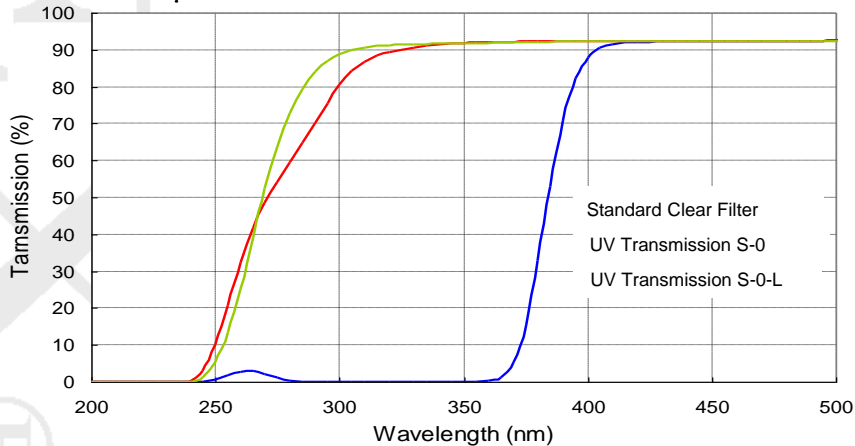
S-0-L (for better weatherability)

- Transmit Ultra-violet ray (approximately 80% at 300nm)
- Excellent Weatherability and Durability
- Available with Non-Glare surface
- Available in a wide range of thicknesses (0.2mm~5.0mm)
- Available machined/printed to meet your application

Standard Clear filter, UV Transmission S-0 and UV Transmission S-0-L



After 500hrs of UV exposure



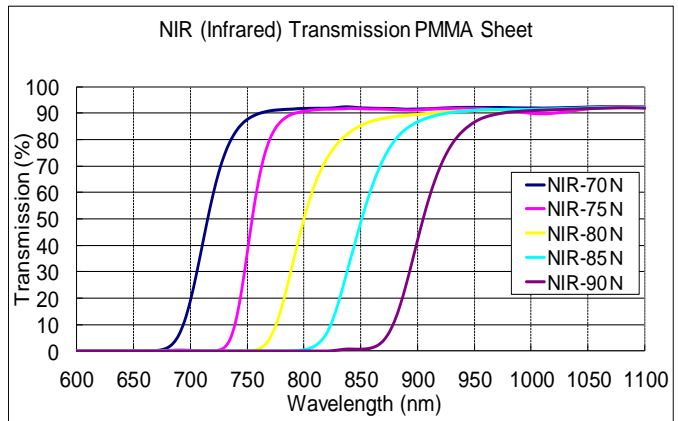
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NIR (Near Infrared) Transmission Filter

- Transmit Infra-red ray.
- Excellent Optical Characteristics and weather resistance.
- Impact resistant (surface Hardness 6-8H) and weatherable
- No malfunction the optical sensor due to birefringence (double refraction).
- Available in a wide range of thicknesses (0.5mm to 5.0mm)
- May be combined with Hard Coat and/or other Optical Coatings.
- May be combined with Flat (glossy) surface and/or Non-Glare surface sheet.

Standard Products

- NIR-70N (Transmit 670nm or over)
- NIR-75N (Transmit 730nm or over)
- NIR-80N (Transmit 760nm or over)
- NIR-85N (Transmit 810nm or over)
- NIR-90N (Transmit 860nm or over)



This is sample test data and is subject to change.

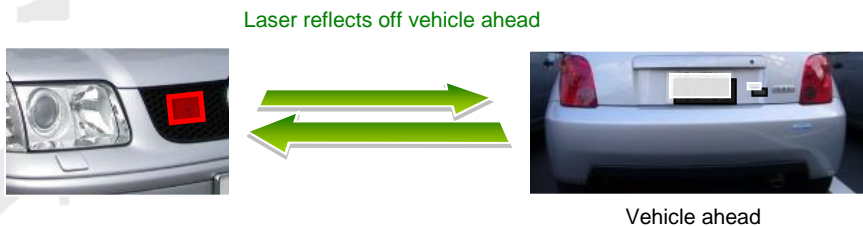
Application Examples

Example 1. Automatic ticket gate

- For Motion sensor

Example 2. Laser radar

- For Outdoor Sensor System such as collision sensor, automatic speed control



Example 3. Security Night-Vision camera

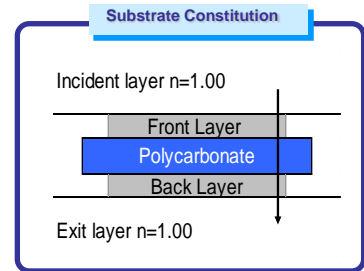
- Our maximum cutoff of visible light, high transmission in NIR range
- Denser than the standard CLAREX NIR filters – eliminates trace visible transmission
- Designed for applications where minimum visible transmission is desired

CLAREX[®]

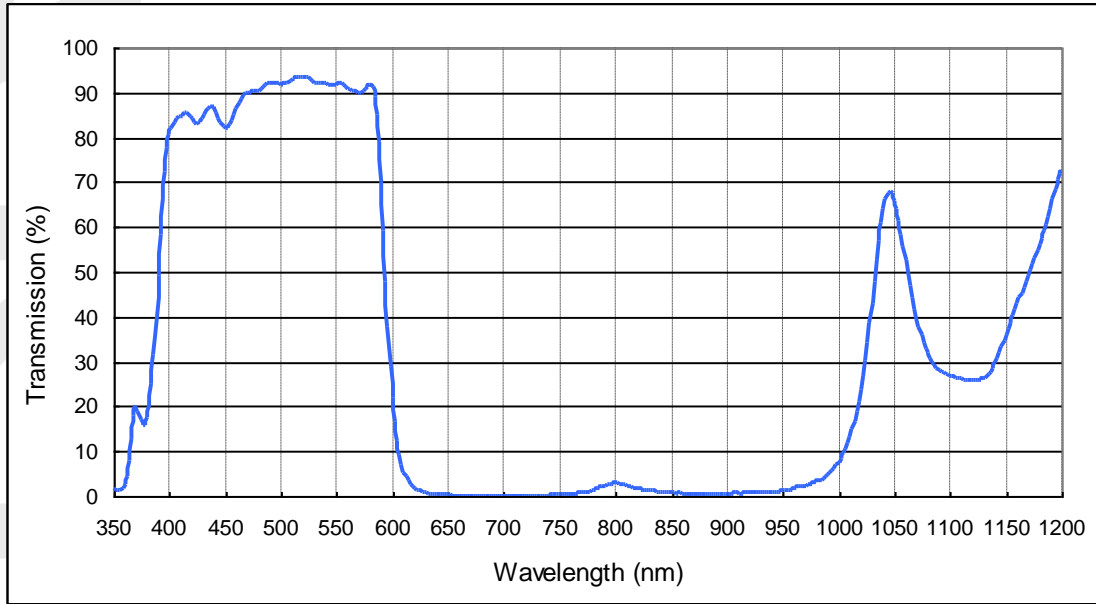
Infrared Cut Filter

IR (Infrared) Cut Filter

- Block Infra-red ray, transmit visible ray
- Excellent weatherability and durability
- Available in wide range of thicknesses (0.5-3.0mm)
- Substrate available in PMMA or Polycarbonate



Spectral Transmission Example



* Value provided cannot be guaranteed in your application due to circumstances beyond our control.

Anti-Bacteria Coat Filter

- Hygienic window filter
- Reduce and prevents bacteria reproduction on panel surface
- Top side hard coated anti-bacteria, and both sides hard coated anti-bacteria are available
- Excellent weatherability and durability
- Excellent surface hardness (6 to 8H)
- Available in a wide range of thicknesses (0.5 to 5.0mm)
- Available in any transmission, color, glossy or non-glare
- Available machined and/or printed to meet your application



Anti-Bacteria for Touch Panel

ANALYSIS DATA by certified authority by SIAA

| Bacteria Type | Test Method | Antibacterial Active Value |
|-----------------------|-------------|----------------------------|
| MRSA | JIS Z2801 | 5 |
| Escherichia coli O157 | JIS Z2801 | 6 |
| Bacterium coli | JIS Z2801 | 6 |
| Staphylococcus aureus | JIS Z2801 | 4 |



According to JIS test method, results with values of 2 or higher indicate anti-bacteria function.

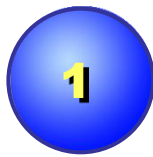
* Value provided cannot be guaranteed in your application due to circumstances beyond our control.

Low Moisture-Absorbing Filter

RH20 LA1-001

- Minimize warpage caused by moisture absorption
- Tighter dimensional tolerances of parts is possible
- Allows higher definition printing
- Available in a wide range of thicknesses (0.3mm to 5.0mm)
- UV transmission types are available

Normal Hard Coat grade
RH20 001



Low water absorption grade
RH20 LA-1 001



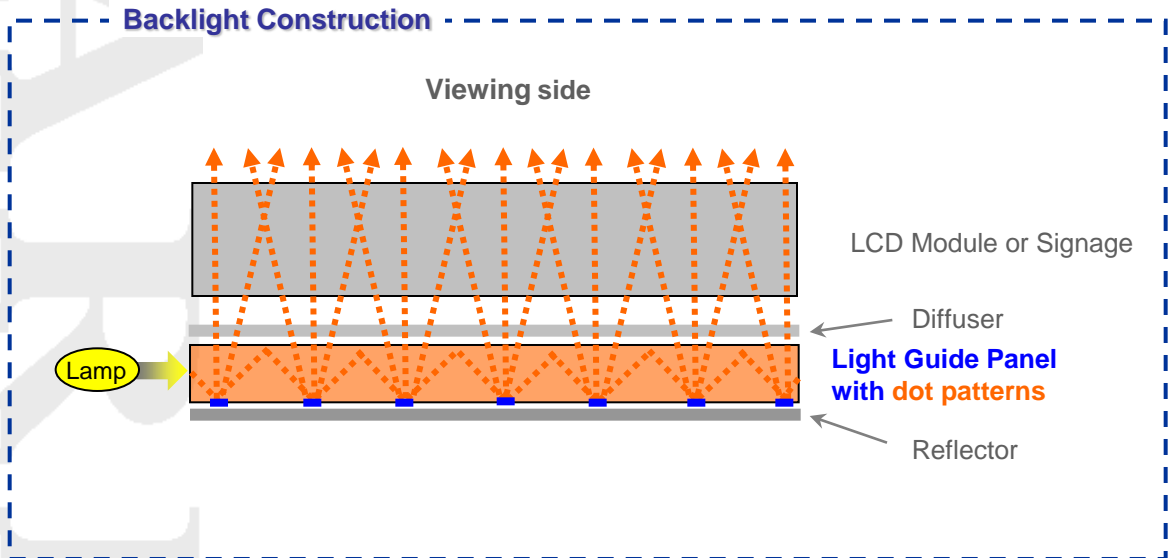
| Properties | | Unit | CLAREX RH20 001 | CLAREX RH20 LA-1 001 |
|-----------------------------|---------------------------|----------------|-----------------------|-------------------------|
| Water Absorption | | Relative ratio | 1 | 0.7 |
| Total Light Transmission | | % | 92 | 92 |
| Haze | | % | 0.1 | 0.1 |
| Pencil Hardness | | H | 6 - 8 | 5 |
| Heat Distortion Temperature | | °C | 110 | 115 |
| Mechanical | Tensile Rupture Strength | MPa | 53 | 44 |
| | Elongation | % | 3.2 | 3.1 |
| | Flexural Rupture Strength | MPa | 67 | 62 |
| | Elasticity ratio | MPa | 3.2 x 10 ³ | 3.2 x 10 ³ |

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CLAREX® Light Guide Panel

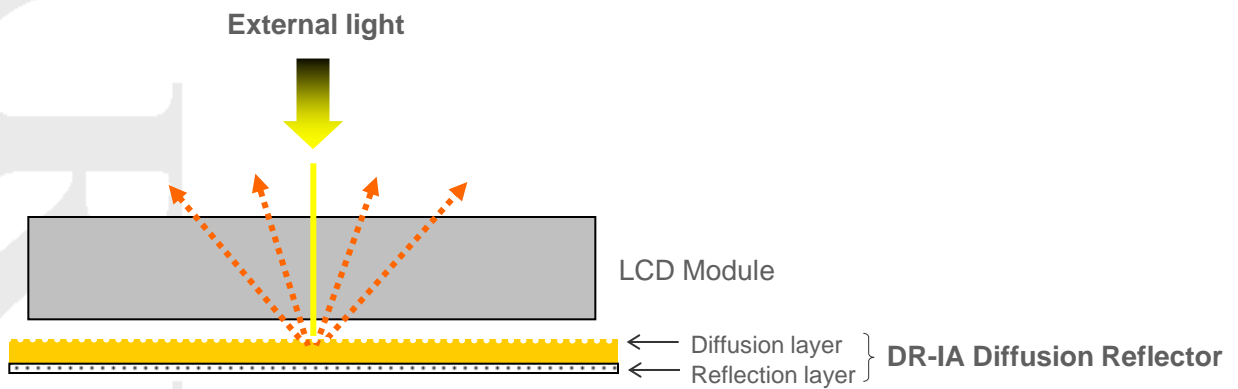
Light Guide Panel

- Light Guide Panel optimizes the uniformity and brightness of backlights according to the customer's requirement
- Can be designed for any type of lamp; e.g. LED, CCFL
- Custom designed for each individual application



DR-IA Diffusion Reflector

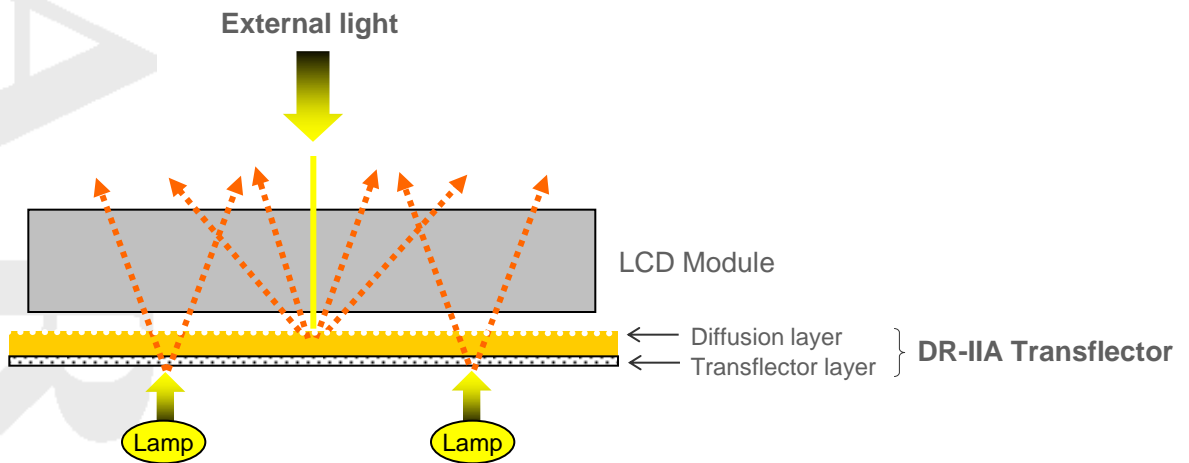
- Suitable for reflection filter of watches, games and sign display
- Also has light-guide function
- Excellent Diffuse-Reflection
- Excellent weatherability and durability
- Available in a wide range of thicknesses from 0.2mm to 5.0mm in increments of 0.05mm
- Available in color versions



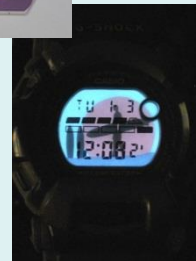
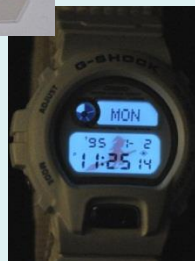
CLAREX® DR-IIA Transflector

DR-IIA Transflector

- Suitable for LCD Display for automobile, audio, sign display, etc.
- Transmissive diffusing reflector
- Dual function - external light reflection and rear light diffusion
- Enables daytime use of LCD without lighting, and direct backlighting at night
- Excellent weatherability and durability
- Available in a wide range of thicknesses (0.2mm to 3.0mm)
- Available in color versions

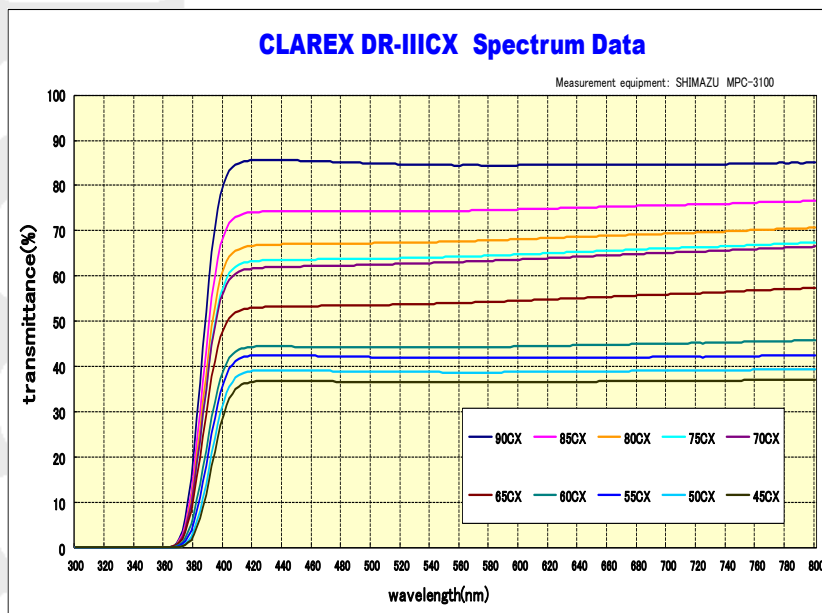
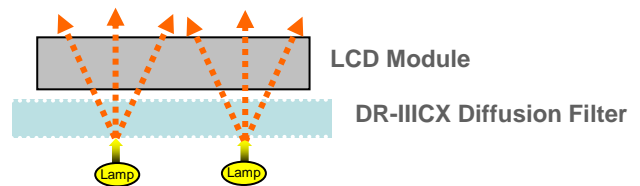


Wristwatch Usage Example



DR-IIICX Diffusion Filter

- Excellent light diffusion
- High color temperature 6750K* (Light Source D65)
- Excellent weatherability and durability
- Available in a wide range of thicknesses (0.2mm to 2.0mm)
- Available in any transmission from 45% to 90%
- Available in color versions



| DR-IIICX TLT Data | |
|-------------------|-----|
| Standard product | TLT |
| DR-90CX | 90% |
| DR-85CX | 85% |
| DR-80CX | 80% |
| DR-75CX | 75% |
| DR-70CX | 70% |
| DR-65CX | 65% |
| DR-60CX | 60% |
| DR-55CX | 55% |
| DR-50CX | 50% |
| DR-45CX | 45% |

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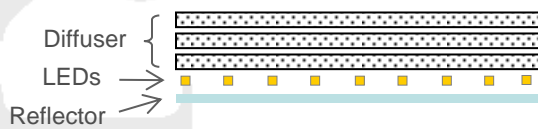
DR-IIISX Shielding Diffusion Filter

- Rear Lamp type LCD Backlight for automotive audio, dashboard
- Light shielding typically used for high brightness light source (e.g. high intensity LED)
- Available in 0.5mm, 0.8mm and 1.0mm
- Available in any color

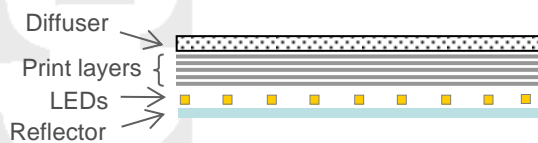
| Standard Product | Total Light Transmission | Standard Product | Total Light Transmission |
|------------------|--------------------------|------------------|--------------------------|
| DR-05SX | 5% | DR-25SX | 25% |
| DR-10SX | 10% | DR-30SX | 30% |
| DR-15SX | 15% | DR-35SX | 35% |
| DR-20SX | 20% | DR-40SX | 40% |

Backlight Construction

Conventional ①



Conventional ②



Diffuser, Light Guide and Reflector becomes a single layer

CLAREX DR-IIISX
LEDs

DR-IV Diffusion Light Guide Lighting Blocks/Shapes

- Translucent white PMMA with uniformly controlled diffusion and light guide function.
- Extremely uniform brightness
- Available in thicknesses from 20mm to 130mm in 5mm increments
- Fabricated according to customer's request
- Suitable for Light guide panel, High diffusion acrylic block / etc.

Application



Display



Elevator Lantern



Illuminated Elevator Floor Display

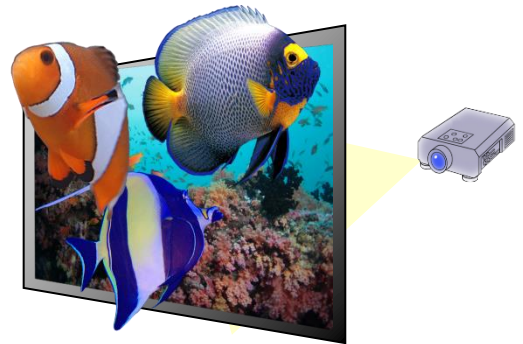
Blue Ocean® Screen

Blue Ocean® Rear Projection Screen

- 3D compatible
- Excellent uniformity
- Excellent definition and contrast
- Wide viewing angle
- True color reproduction
- Low scintillation

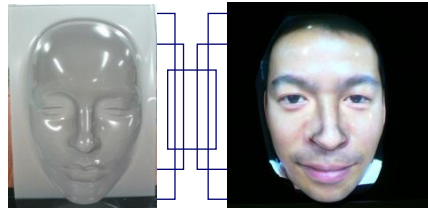


Maximum Size : 200inch Wide



3D Formed Type

- The screen of various shape is made possible by taking advantage of the workability of Acrylic material.
- Excellent color development all around the shape, and Real 3D effect which flat display cannot afford.
- Eye-catching and stereoscopic production effect will be expected in amusement and advertising applications.



Blue Ocean® is the trade mark registered by Nitto Jushi Kogyo Co.,Ltd.

CLAREX® See-through Screen

CLAREX® See-through Screen

- The transparent screen made possible to see through the object at the back of the projection screen.
- A stereoscopic 3D stage effect is achievable by using the CLAREX See-Through Screen and special video production and lightings.
- Four varieties meet each application such as display, live show.



Features

- Thin and Light acrylic sheet in 3.0mm thick * thickness can be customized
- High transmission
- Excellent definition and contrast achieved by proprietary optical technology and casting technology
- Minimize warpage by monolithic structure, and excellent smooth surface
- Four variations with different brightness and viewing angle *can be customized, too.
- Low scintillation
- Easy to fabricate, such as heat bend, drill holes and CNC machining

Specification

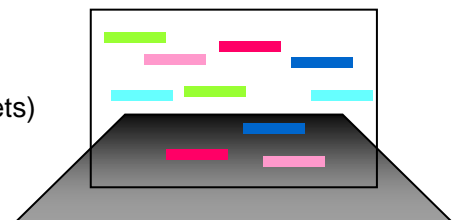
Material : PMMA Acrylic sheet

Thickness : 3.0mm *can be customized

Maximum image size : 2000 x 3000mm (combined sheets)

Total light transmission : over 92%

Pencil hardness : over 2H



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FANTAREX® Color Sheets

FANTAREX® is our Cell-Cast Acrylic Sheet for ornamental design.

Seven Groupings

- Art 37 Colors
- Harmony 20 Colors, 40 Types
- Pastel 20 Colors
- Metallic 21 Colors
- Crystal 23 Colors, 38 Types
- Fancy 14 Colors, 20 Types
- Dream 14 Colors, 20 Types

- 150 colors, endless combinations possible
- Complements industrial as well as consumer design concepts
- Surface Hardness 2H (equivalent aluminum)
- Easy to fabricate, such as heat bend, machine, polish, paint, print.
- Available thicknesses: 3.0mm, 5.0mm
- Custom thicknesses and colors available

Cast Acrylic Sheet

FANTAREX. Art (アート) 37色

Art (アート) 37色

※0.5mm厚です。他は、厚さに応じます。
※0.5mm厚は、他色に比べて透明度が低く、見栄えが異なります。

※この製品は、アクリル樹脂に顔料を配合して成形したものであり、他の樹脂系材料とは異なり、熱による変形や、紫外線による劣化を防止するために、UVカット剤を配合しています。

※0.5mm厚は、他色に比べて透明度が低く、見栄えが異なります。

※アクリル樹脂系材料であり、火災に注意してください。

〒100-8585 東京都千代田区千代田1-1-1
TEL 03-3783-3121

FANTAREX. Harmony (ハモニー) 20色

Harmony (ハモニー) 20色

※0.5mm厚です。他は、厚さに応じます。
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※0.5mm厚は、他色に比べて透明度が低く、見栄えが異なります。

※アクリル樹脂系材料であり、火災に注意してください。

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FANTAREX. Crystal 38色

Crystal 38色

※0.5mm厚です。他は、厚さに応じます。
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※この製品は、アクリル樹脂に顔料を配合して成形したものであり、他の樹脂系材料とは異なり、熱による変形や、紫外線による劣化を防止するために、UVカット剤を配合しています。

※0.5mm厚は、他色に比べて透明度が低く、見栄えが異なります。

※アクリル樹脂系材料であり、火災に注意してください。

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TEL 03-3783-3121

FANTAREX. Pastel 20色

Pastel 20色

※0.5mm厚です。他は、厚さに応じます。
※0.5mm厚は、他色に比べて透明度が低く、見栄えが異なります。

※この製品は、アクリル樹脂に顔料を配合して成形したものであり、他の樹脂系材料とは異なり、熱による変形や、紫外線による劣化を防止するために、UVカット剤を配合しています。

※0.5mm厚は、他色に比べて透明度が低く、見栄えが異なります。

※アクリル樹脂系材料であり、火災に注意してください。

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TEL 03-3783-3121

FANTAREX. Metallic 21色

Metallic 21色

※0.5mm厚です。他は、厚さに応じます。
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※この製品は、アクリル樹脂に顔料を配合して成形したものであり、他の樹脂系材料とは異なり、熱による変形や、紫外線による劣化を防止するために、UVカット剤を配合しています。

※0.5mm厚は、他色に比べて透明度が低く、見栄えが異なります。

※アクリル樹脂系材料であり、火災に注意してください。

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FANTAREX. Fancy 20色

Fancy 20色

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※0.5mm厚は、他色に比べて透明度が低く、見栄えが異なります。

※アクリル樹脂系材料であり、火災に注意してください。

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FANTAREX. Dream 15色

Dream 15色

※0.5mm厚です。他は、厚さに応じます。
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※この製品は、アクリル樹脂に顔料を配合して成形したものであり、他の樹脂系材料とは異なり、熱による変形や、紫外線による劣化を防止するために、UVカット剤を配合しています。

※0.5mm厚は、他色に比べて透明度が低く、見栄えが異なります。

※アクリル樹脂系材料であり、火災に注意してください。

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Dream

- D-701~D-705 Translucent White type
- D-706~D-715 White Diffusion type