



ACRYLITE® Satinice

Extruded and Cast Sheet



Product

Elegant and captivating, the suite of ACRYLITE® Satinice acrylic sheet and tube products stimulate the imagination. The subtle surfaces and impressive array of colors open the door for inspiration with sumptuous textures that will enhance any environment with beauty as well as durability.

Resistant to traces of wear and finger marks, these products are technologically developed to also have the perfect balance between transmission and diffusion. ACRYLITE® Satinice is designed to enhance virtually any environment with light and brilliance.

Applications

ACRYLITE® Satinice offers excellent solutions for the following applications:

- Architectural lighting, decorative glazing, privacy partitions, shelves, furniture, POP, retail/store fixture displays and exhibition booths
- Wall paneling in architectural applications
- White/translucent grades as lens for luminaries and skylights
- Tubes for architectural lighting



Photo © Bruce Damonte

Fabrication

ACRYLITE® Satinice can be fabricated just like ACRYLITE® acrylic sheet and tube. Fabrication briefs are available on ACRYLITE® on www.acrylite.co

Properties

ACRYLITE® Satinice offers the following unique features:

- Grades with varying degrees of light diffusion
- Balanced ratio of light diffusion and transmittance
- Resistant to traces of wear
- Excellent light transmission and brilliance
- 100% recyclability
- Very high weather resistance
- Easy fabrication
- Light weight – about half the weight of glass
- ~20 times the impact strength of glass
- Some grades meet food contact requirements



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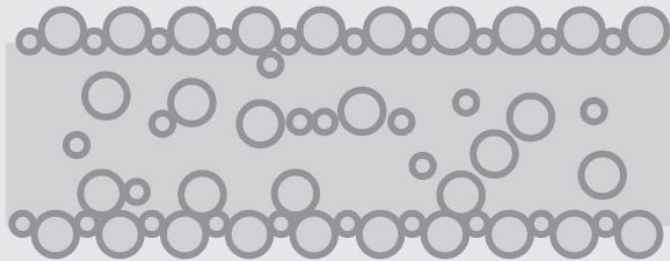
Surfaces and other properties of the various products:

Cast Sheet – velvet texture (P95 & DP9)



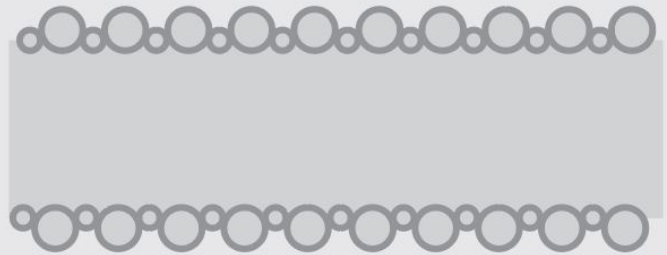
- Velvety frosted surface on one or both sides
- Light diffusing
- Extremely easy to machine and fabricate
- Wide range of thicknesses and colors available
- Fingerprint and scratch resistant surface

Extruded Sheet – satin texture, optimum light diffusion



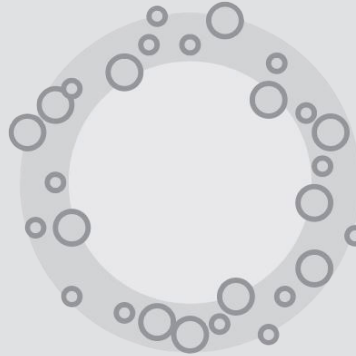
- Soft frosted surface
- Light diffusing beads evenly distributed throughout material
- Texture is retained after thermoforming
- Excellent balance between light diffusion and light transmission (up to 91%)
- Fingerprint and scratch resistant surface
- Enhanced grades available (WD85X Series), offering higher light transmission and greater diffusion

Extruded Sheet – crystal surface



- More durable textured surface
- Excellent thickness tolerance
- Clear edge when polished
- Texture is retained after thermoforming
- Textured surface on one or both sides
- Fingerprint and scratch resistant surface

Extruded Tube – satin texture, optimum light diffusion



- Soft frosted surface
- Light diffusing beads evenly distributed throughout material
- UV resistant and perfect for any lighting design
- Suitable for food contact



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Product Specifications

Color	Color Number	Size	Thickness
optimum light diffusion			
Colorless	WD852 WD853 WD854 WD855	49" x 97"	.060" (1.5mm) .080" (2mm) .118" (3mm)
Colorless	OD010 DF		.060" (1.5mm) .080" (2mm) .098" (2.3mm) .118" (3mm) .177" (4.5mm) .236" (6mm) .354" (9mm) .472" (12mm)
White	WD008 DF		.060" (1.5mm) .080" (2mm) .118" (3mm) .177" (4.5mm) .236" (6mm) .354" (9mm) .472" (12mm)
Light White	WD500 DF		.080" (2mm)
Light Green Light Blue	6D001 DF 5D004 DF		.118" (3mm) .177" (4.5mm) .236" (6mm) .354" (9mm)
Medium Blue Dark Blue	5D005 DF 5D006 DF		.118" (3mm) .177" (4.5mm) .236" (6mm)
crystal surface (texture on one or both sides)			
White	WM530 SC	49" x 97"	.118" (3mm) .177" (4.5mm) .220" (5.6mm)
Colorless Colorless Blue Glass Green Glass Green	OM001 SC OM001 DC 5M022 SC 6M020 SC 6M020 DC		.118" (3mm) .177" (4.5mm) .236" (6mm) .354" (9mm)

Color	Color Number	Size	Thickness
velvet texture two sided (cast DP9)			
Pacific Laguna Sunshine Grass Pumpkin Plum Strawberry Mandarin Sky Blue Kiwi Lollipop Coconut Cloud Black	5H09 DC 5H74 DC 1H17 DC 6H55 DC 2H12 DC 4H01 DC 3C04 DC 2H08 DC 5C01 DC 6H07 DC 4H12 DC WH02 DC WH26 DC 9H01 DC	80" x 120"	.236" (6mm)
velvet texture two sided (extruded DP9)			
Clear White White Black	OM009 D5 WM539 D5 WM630 D5 9M807 D5	48" x 96"	.118" (3mm) .177" (4.5mm) .236" (6mm) .354" (9mm) .472" (12mm)
velvet texture one sided (extruded P95)			
Colorless	OM009 S5	48" x 96"	.118" (3mm) .177" (4.5mm) .236" (6mm) .354" (9mm) .472" (12mm)
White White Black	WM539 S5 WM630 S5 9M807 S5	48" x 96"	.118" (3mm) .177" (4.5mm) .236" (6mm) .354" (9mm) .472" (12mm)



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Light Transmission

Color	Color Number	.060"	.080"	.098"	.118"	.177"	.236"	.354"	.472"
optimum light diffusion									
Colorless	OD010 DF	91%	90%	87%	86%	82%	78%	68%	65%
Colorless	WD852	92%	92%	-	92%	-	-	-	-
Colorless	WD853	85%	85%	-	85%	-	-	-	-
Colorless	WD854	79%	79%	-	79%	-	-	-	-
Colorless	WD855	72%	72%	-	72%	-	-	-	-
White	WD008 DF	65%	64%	62%	60%	50%	42%	38%	33%
Light White	WD500 DF	-	-	-	80%	-	-	-	-
Light Green	6D001 DF	-	-	-	87%	84%	81%	73%	62%
Light Blue	5D004 DF	-	-	-	87%	85%	82%	73%	-
Medium Blue	5D005 DF	-	-	-	52%	52%	52%	52%	-
Dark Blue	5D006 DF	-	-	-	10%	10%	10%	10%	-
crystal surface									
White	WM530 SC	-	-	-	15%	15%	15%	15%	-
Colorless	OM001 SC	-	-	-	92%	92%	92%	92%	-
Colorless	OM001 DC	-	-	-	88%	88%	88%	88%	-
Blue	5M022 SC	-	-	-	85%	85%	85%	85%	-
Glass Green	6M020 SC	-	-	-	88%	88%	88%	88%	-
Glass Green	6M020 DC	-	-	-	83%	83%	83%	83%	-

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Fire Precautions

ACRYLITE® sheet is a combustible thermoplastic. Precautions should be taken to protect this material from flames and high heat sources. ACRYLITE® sheet usually burns rapidly to completion if not extinguished. The products of combustion, if sufficient air is present, are carbon dioxide and water. However, in many fires sufficient air will not be available and toxic carbon monoxide will be formed, as it will when other common combustible materials are burned. We urge good judgement in the use of this versatile material and recommend that building codes be followed carefully to assure it is used properly.

Compatibility

Like other plastic materials, ACRYLITE® sheet is subject to crazing, cracking or discoloration if brought into contact with incompatible materials. These materials may include cleaners, polishes, adhesives, sealants, gasketing or packaging materials, cutting emulsions, etc. See the Tech Briefs in this series for more information, or contact your ACRYLITE® sheet Distributor for information on a specific product.

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