



Cobotex

TECHNICAL INFORMATION: Sheets & Profiles

Lighting Components

DURAfrost

DURAfrost is an innovative, *frosted-acrylic* product developed for sheet and profile extrusion.

The contemporary appearance and diversity of DURAfrost make it a premier product for multiple applications such as Lighting, Office Furniture & Partitions, Signs & Displays, False Ceiling ...



A frosted textured surface that is EASY to CLEAN

DURAfrost™ Offers

- Frosted appearance similar to that of frosted glass with a consistent textured surface
- Surface resists fingerprints and smudges and is therefore easy to clean
- Improved scratch resistance compared to standard acrylic
- Excellent UV stability
- Excellent light diffusion for backlight applications
- Excellent hiding power for fluorescent tubes into fixture applications
- Efficient and light control sheet
- Easily thermoformed
- Available in standard and impact grades

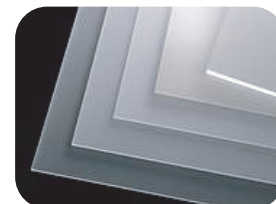


DURAfrost™ Products

- Sheet —from .060" to .300" thick in full sheets or run to size.
- Custom Profiles and Tubes Available
- DURAfrost™ is available in flat sheet (full-sheets or run-to-size)
- DURAfrost™ is available in select standard colors - (custom colors on request).

DURAfrost™ Applications

- Lighting profiles, lens, wraps and tubes
- Contemporary office furniture
- Office partition systems
- Point of purchase displays
- False ceiling and much more . . .



Pattern

SP-12 SP-15 SP-19 Cracked Ice Crepe / Smooth Crepe / Crepe Smooth / Smooth Fincel (Matte)

PRISMATICS

Nominal Thickness	.095" to .187"	.200"	.156" & .187"	.060" to .250"	.040" to .250"	.060" to .125"	.045" to .250"	.040" to .100"
ACRYLICS								
PLEX DR®	X						X	
DURAYL®	X				X		X	X
Clear Acrylic	X	X	X	X	X	X	X	X
White translucent	X			X	X	X	X	X
Silvertint	X	X	X					
STYRENES								
Clear GP Styrene	X			X				
White Translucent GP Styrene	X			X				
White Translucent HI Styrene							X	

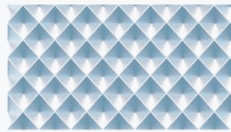
Note: Haircel embossing is available on the reverse side of selected patterns upon request.

- SHEET CUT TO SIZE
- CUSTOM PACKAGING AVAILABLE
- CUSTOM COLORS AVAILABLE
- UV FILTERING AND TRANSMITTING ACRYLICS ARE AVAILABLE IN SMOOTH AND EMBOSSED SHEET

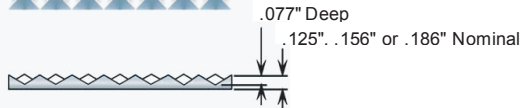


ACRYLIC PRISMATIC LENSES

Pattern SP-12 (Specification Lens)



The prisms are conical depressions with a 3/16" square base running 45° to the edges of the panel.



The female conical prisms of pattern SP-12 make it possible to obtain a relatively thin and lightweight panel with good sag resistance. The conical pattern diffuses light efficiently and reduces glare. Nominal .125" thk. and up panels are recommended when sag must be limited in 2' x 4' panels.

White translucent and silvertint acrylic panels are also available in this pattern. Photometric reports are available for .125" and .156" thick clear acrylic and .125" thick silvertint pattern SP-12.

Pattern SP-12 panels are available from .095" to .187" nominal thickness.

Pattern SP-12/21 (Commodity Lens)



Economy embossed pattern similar to pattern SP-12.

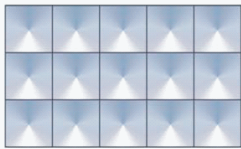
The female conical prisms of pattern SP-12/21 make it possible to obtain a relatively thin and lightweight panel with good sag resistance. The conical pattern diffuses light efficiently and reduces glare. Nominal .125" thk. and up panels are recommended when sag must be limited in 2' x 4' panels.

White translucent and silvertint acrylic panels are also available in this pattern.

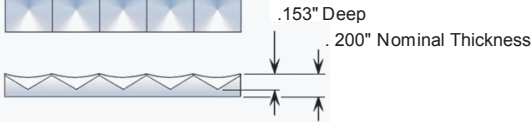
Pattern SP-12/21 panels are available from .095" to .187" nominal thickness.

ACRYLIC PRISMATIC LENSES

Pattern SP-15



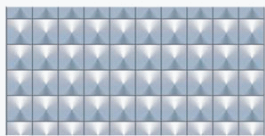
The prisms are conical depressions with a 3/8" square base running parallel to the edges of the panel.



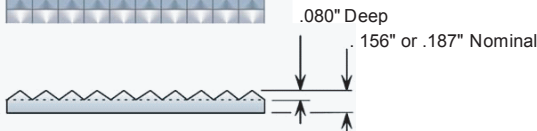
SP-15 panels are relatively rigid and sag resistant due to the thickness and the large female conical pattern. Panels up to 4' x 4' should be acceptable as far as sag is concerned. The conical pattern is highly efficient at diffusing light and reducing glare.

Silvertint acrylic panels are also available in this pattern. Photometric reports are available for .200" nominal thick clear acrylic panels.

Pattern SP-19



The prisms are raised cones with a 3/16" square base running parallel to the edges of the panel.

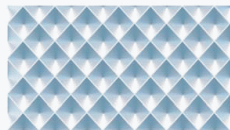


The raised conical prisms of pattern SP-19 give it a distinctive crystal like look similar to that found in injection molded panels. This pattern is also highly efficient in reducing glare.

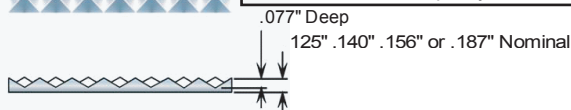
White translucent and silvertint acrylic panels are also available in this pattern. Photometric reports are available for .156" nominal thick clear acrylic and silvertint panels.

GARDGLAS™ LENSES (IMPACT RESISTANT)

Pattern SPG-12 (Specification Lens)



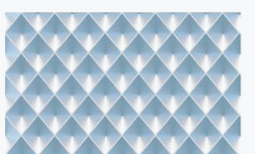
The prisms are conical depressions with a 3/16" square base running 45° to the edges of the panel. The prisms appear square as they should be. Elongated or distorted bases are an indication of inferior quality.



Pattern SPG-12 GARDGLAS™ is made of 100% Plex DR®, a high impact acrylic. The female conical prisms give pattern SPG-12 sheet good sag resistance and efficient light diffusion.

The high impact strength of Pattern SPG-12 GARDGLAS™ makes it an ideal choice when breakage is a problem or when vacuum forming, heat bending, recutting or other fabrication is required.

Pattern SPG-12/21 (Commodity Lens)

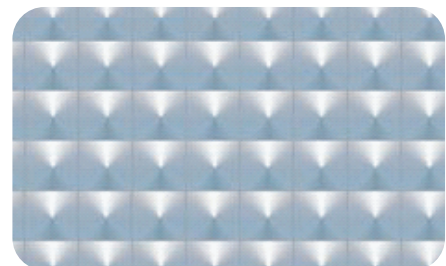
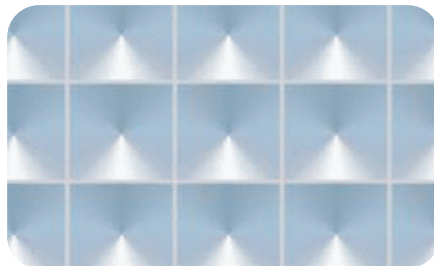
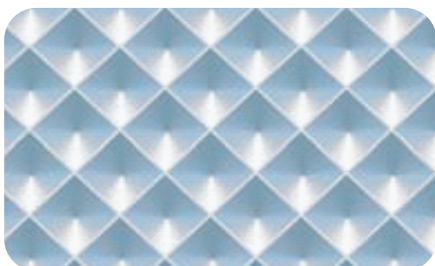


Economy embossed pattern similar to pattern SP-12.

Pattern SPG-12/21 GARDGLAS™ is made of 100% Plex DR®, a high impact acrylic. The female conical prisms give pattern SPG-12/21 sheet good sag resistance and efficient light diffusion.

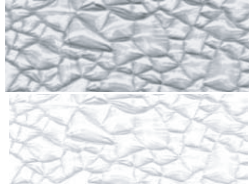
The high impact strength of Pattern SPG-12/21 GARDGLAS™ makes it an ideal choice when breakage is a problem or when vacuum forming, heat bending, recutting or other fabrication is required.

Pattern 12 Pattern 15 Pattern 19



ACRYLIC LIGHTING LENSES

Cracked Ice



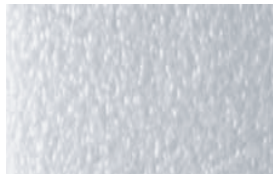
Clear Cracked Ice consists of male ice-like of various sizes and shapes that sparkle when back lit.

White Translucent Cracked Ice has a milky look.

Clear and white translucent acrylic Cracked Ice lighting panels are available from .060" to .250" thick. The reverse side is smooth. Haircel is available on the reverse side when requested.

G.P. styrene panels are also available.

Crepe/Smooth



Clear Crepe is a random pattern that gives clear panels a frosty look.

White translucent Crepe (not shown) has a milky look.

Crepe/Smooth lighting panels are available from .040" to .250" thick in clear and white translucent acrylic and in Durayl® (an acrylic blend modified for impact resistance). Haircel, instead of smooth, is available on the reverse side upon request.

.040" thick Crepe panels are used as overlays for egg crate and metal parabolic louvers to diffuse the light.

Crepe/Crepe panels from .060" to .125" thick in clear and white translucent acrylic are also available.

Finecel™



Finecel™ is a very fine pattern that produces a matte finish.

Finecel™ lighting panels from .040" to .100" thick are available in clear and white translucent acrylic.

The matte surface of Finecel™ lighting panels diffuses the light and reduces glare from sunlight or other light sources being reflected from the bottom surface of the panels.

.040" thick Finecel™ panels are used as overlays for egg crate and metal parabolic louvers to diffuse the light. .020" thick Finecel™ panels are available in Durayl® when flexible sheet is required to fit the radii of metal and plastic diffusers to increase diffusion.

Smooth/Smooth



Smooth/Smooth lighting panels from .045" to .250" thick are available in Plex DR®, Durayl® (an acrylic blend modified for impact resistance), and in clear and white translucent acrylic.

White translucent H.I. Styrene panels are also available.

LENSES PHOTOMETRIC DATA (CANDLEPOWER DISTRIBUTION; ZONAL CAVITY COEFFICIENTS OF UTILIZATION; VISUAL COMFORT PROBABILITY) available upon request.

Acrylic Characteristics

- Outstanding optical properties; as transparent has the finest optical glass
- Excellent resistance to prolonged exposure to both sunlight and electric light sources
- Superb clarity
- 92% of the light perpendicular to the surface is transmitted
- Excellent chemical resistance
- Lightweight, tough, durable and rigid
- Maximum continuous service temperature varies from 145oF to 200oF

Polycarbonate (PC) Characteristics

- Processing and application flexibility
- Glass-like transparency and outstanding impact strength
- Good thermal resistance and electrical properties
- Excellent dimensional stability

