

Plastics for Lighting Applications



Benefits of Plastic:

- Outstanding light transmission
- LED diffusing grades available
- Resists damage during shipping and installation
- Can be thermoformed into complex shapes
- Lightweight for low shipping cost and easy installation
- Some grades can be bent and cold formed
- Thin sheet and film can be used to retrofit existing light fixtures
- Light diffusing films can be formed into curved shapes

Plastic materials to meet your needs

Lighting manufacturers face the complex challenge of creating aesthetically pleasing fixtures that achieve the perfect warm or cool color and the right levels of light transmission and diffusion. Curbell Plastics offers a wide range of plastic film and sheet light diffuser materials that can accommodate any lighting fixture application.

Diffusing light from LED lamps can be particularly challenging since LEDs tend to create “hot spots” of concentrated light that are difficult to diffuse. Our product line includes new materials such as Plexiglas® Sylk acrylic sheet and Makrofol® LM (light management) polycarbonate films that are engineered to transmit and diffuse light generated by LED lamps.

Material selection, expert advice

“Curbell Plastics offered us many different diffuser options for our new architectural lighting fixture. With their help, we were able to achieve the exact look that we wanted. Their ability to quickly and accurately cut large quantities of plastic diffusers helps to keep our production running on schedule.”

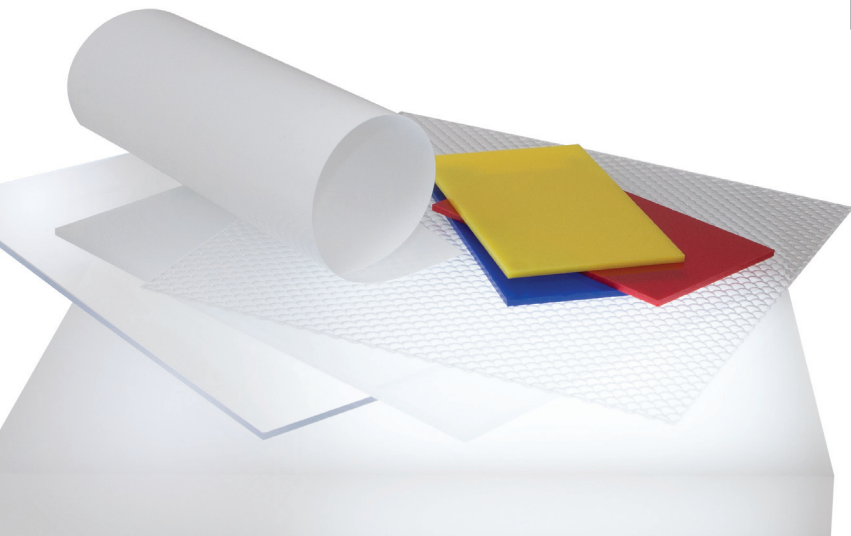
~ Curbell Customer Feedback

TYPICAL APPLICATIONS:

- Indoor and outdoor light fixtures
- Lighted point-of-purchase displays
- Lighted retail store merchandizers
- Backlit signs
- Lighted architectural features
- Mass transit lighting
- Aerospace lighting

COMMON MATERIALS:

- Acrylic
- KSH® lighting panels
- Makrofol® DE 1-4 films
- Makrofol® LM films
- TUFFAK® DX-NR (formerly called Makrolon®)
- TUFFAK® Lumen XT (formerly called Makrolon®)
- OPTIX® 95
- OPTIX® 95 LED
- OPTIX® Frost LED
- OPTIX® LD
- OPTIX® NG
- Plexiglas® Sylk
- Polycarbonate
- Polycarbonate film



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