

A photograph of a modern interior space, likely a lobby or hallway, featuring a curved glass wall and ceiling. The ceiling is illuminated with bright blue light, creating a series of curved, glowing patterns. The glass wall reflects the interior and the ceiling lights. The overall color palette is dominated by blue and white, with a large, curved, magenta-colored graphic element on the right side of the image.

Makrolon® Design Freedom for Lighting





Bring your vision to light...

with Makrolon® Lumen XT and Makrolon® DX-NR translucent polycarbonate sheet

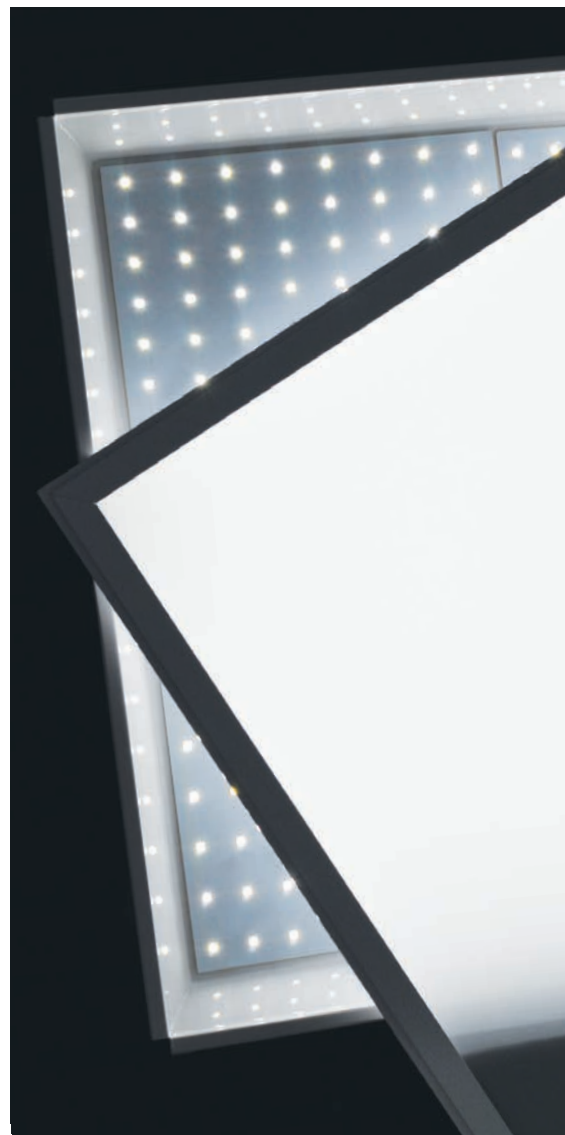
New lighting technology has transformed the world of lighting fixtures. The popularity of LED-based applications opens up many exciting design possibilities. But LED light sources may present challenges when it comes to hot spots and light intensity fluctuations.

Fortunately, Covestro has transformed the world of lighting materials with Makrolon polycarbonate sheets. Makrolon has an impressive history of success in medical, automotive, data storage and construction applications.

For today's LED lighting, Makrolon translucent sheets provide the ideal combination of high light diffusion and high light transmission. They offer higher impact strength than glass or acrylic, and they offer superior temperature resistance. In addition, Makrolon sheets can be formed into a variety of shapes to satisfy your design needs. Put it all together, and Makrolon sheets provide the freedom in design and color flexibility to maximize your light fixture's aesthetics and lighting effects.



Makrolon® Lumen XT translucent polycarbonate sheets light up your LED fixture design creativity. Optimized surface texture and advanced diffuser technologies assure hot spots are eliminated and shadowing is reduced.



Makrolon® DX-NR stands for Diffusion eXcellence because of its outstanding combination of brightness, uniformity, and flexible approach to the color and surface texture of the sheets, as well as to their exterior applications. These high quality polycarbonate sheets smooth out LED's to create a light, bright atmosphere with no hot spots or shadows. With Makrolon DX-NR, you always design your best light.

Makrolon® Lumen XT LW grades provide a higher light transmission and a warmer hue to accent your warm LEDs when lights are off. It maintains the look and atmosphere your fixture is designed to create. This is accomplished without sacrificing the material's high performance as a diffusion lens. In addition, Makrolon Lumen XT sheets have a UL listed flammability rating that is higher than competitive materials.



The material of choice for exterior applications, Makrolon® DX-NR helps to provide uniform luminance and ensures elimination of LED hot spots while maintaining high light transmission. The advanced UV resistance technology provides long lasting weathering performance.

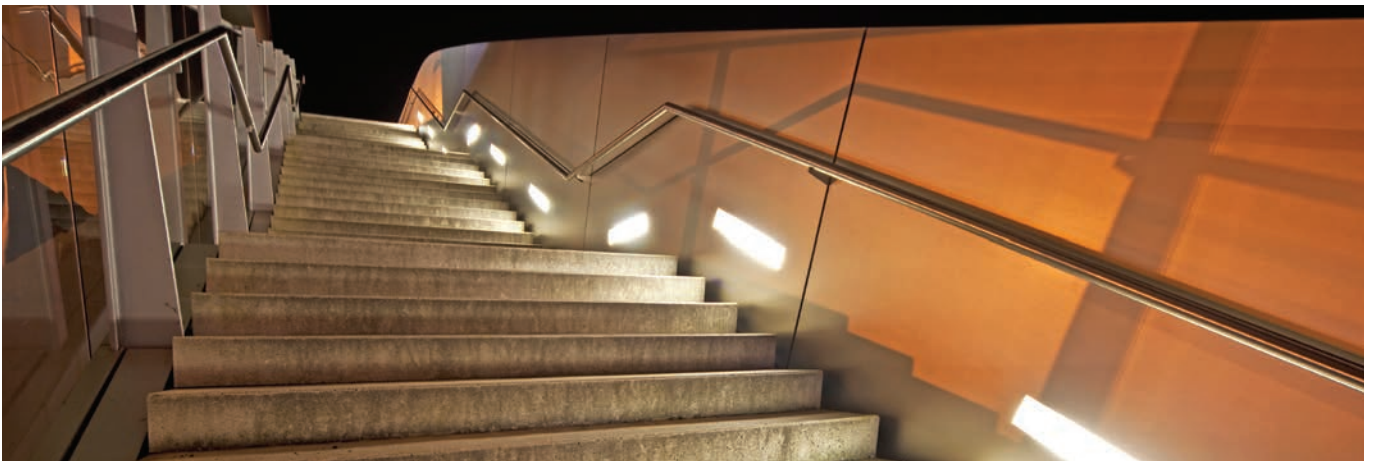


Makrolon® Lumen XT offers high performance in light transmission and diffusion. Lumen XT LC grades provide a cooler hue to accent your cool designs even when fixtures are turned off, making it one of the industry's top performing lens materials.



Makrolon® Lumen XT sheets come in a wide range of standard diffusion levels to meet your needs when designing new LED fixtures or retrofitting conversions to LEDs. Because they're polycarbonate, they also meet your needs for functionality.

An option for every emotion. Makrolon® DX-NR creates an enticing atmosphere that showcases your creative vision with a higher light transmission. It transmits RGB light colors better than competitive materials, resulting in truer, more vibrant light fixtures.



An option for every need – advanced diffusion technology is only part of the Makrolon® DX-NR story. It provides excellence in safety and security with enhanced flammability resistance and glow wire testing over acrylic. It is high impact and high temperature resistant, so neither heat nor vandalism will affect your design.



Makrolon®

About Covestro

Covestro is one of the leading producers of polymers and high performance plastics and is part of the global Covestro business with approximately 14,700 employees at 30 production sites around the world. The company manufactures high-tech polymer materials and develops innovative solutions for products used in many areas of daily life. The main segments served are the automotive, electrical and electronics, construction, medical, and sports and leisure industries. Sustainability is central to Covestro business and is based around the key areas of innovation, product stewardship, excellence in corporate management, social responsibility and respect for the environment.



119 Salisbury Road
Sheffield, MA 01257
Toll Free: 800.254.1707
Fax: 800.457.3553
sfdinfo@covestro.com
sheets.covestro.com

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