



Makrolon® SL

Polycarbonate sheet with enhanced UV resistance for exterior signs

Makrolon SL sheet delivers over 20 times more impact resistance than standard and impact modified acrylic even at low temperature extremes.

Its toughness minimizes breakage during forming and fabrication, and costly damage that can occur during shipping and installation particularly in cold weather.

Once in place, sign faces made from tough Makrolon SL sheet project a positive image long term by withstanding high wind loads and impacts that put other sign face materials out of business.

High strength may also allow the use of thinner sections depending on the design, for lighter weight and even greater overall cost effectiveness.

In addition to its toughness, Makrolon SL sheet also offers:

- 10-year warranty on clear Makrolon SL for outdoor use
- Shorter cool-down time than acrylic in thermoforming, for significantly higher production rates

Temperature Resistance (ASTM D 648)

Material	Heat Deflection Temperature (°F) @ 66 psi	Heat Deflection Temperature (°F) @ 264 psi
Makrolon SL	280	270
Acrylic (PMMA)	190	181

Impact Resistance (ASTM D 3763)*

Material	Total Energy (ft·lbs)
Makrolon SL	> 46
Acrylic (PMMA)	2

*1/8" sheet

Bayer MaterialScience LLC produces Makrolon sheet products from Bayer Corporation's Makrolon polycarbonate resin



Makrolon® LD light diffusing

Polycarbonate sheet for electronic signs now available

Proprietary Diffuser Technology for Superior Diffusion Properties

- Eliminates LED hot spots in flat and formed applications
- Reduces light intensity fluctuations (shadowing/ skeletoning)
- Allows for shallow channel letter design
- Superior diffusion with any standard light source: LED, neon, and fluorescent

Key Advantages of Polycarbonate

- Over 30 times the impact resistance of acrylic
- Superior flammability performance versus acrylic



Offered in Industry Standard Sheet and Reels Available Colors

- B27 white (7328)
- D96 Red (2283)
- F85 Blue (2051)
- B48 white (2447)D99 Red (2793)
- H87 Green (2108)
- C59 Orange (2119)
- F84 Blue (2114)
- M72 Yellow (2037)



Bayer MaterialScience

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