



Makrolon® RX Line
Efficient and Uniform Reflection
Across the LED Spectrum



Makrolon® RX = Reflection eXcellence

Illuminate Both Living and Work Space

Light surrounds us during the day and at night but most of the time, we do not realize the presence of it. Natural and artificial light can influence our environment in different ways: it can help us feel better, it affects our emotions but above all, it enables us to live and work. Natural light is daylight, which means that the objects surrounding us are partly illuminated by the sunlight directly and partly by the rays bounced off from the surfaces around them. Sources of artificial light are lamps, luminaires and fixtures of different kinds. Their design and usage varies: some of them emit the light towards the viewer or the object and others use reflectors to indirectly illuminate living and work space. Artificial lighting is therefore divided into direct and indirect lighting.

Exolon Group has been successfully providing the LED lighting industry with innovative material solutions for many years. The **Makrolon® RX** opaque solid polycarbonate sheet line from Exolon Group has been designed for all kinds of LED based luminaires and fixtures, using the function of light reflection. **Makrolon® RX** line offers extremely high light reflectance and better mechanical properties than glass or acrylic as well as superior thermal and fire resistance. As a result, it can be applied as flat or thermoformed parts like reflectors, in the fixtures basing on the principle of indirect lighting. In direct lighting it can be applied as a reflective carrier surrounding LED light source or other (e.g. divider panel, back panel). It can also be used as a white decorative luminaire housing.

Using **Makrolon® RX** line you can increase light output up to 10%, if maintaining the existing LED set-up or reduce energy costs even by 30% by decreasing the number of LEDs used (and increasing the pitch between them), compared to standard coating or laminating solutions.

Makrolon® RX

Its most valuable property is extremely high light reflectance (96%, EN ISO 13468-2), combined with excellent opacity, results in almost no permeation of light through the material. This makes **Makrolon® RX** a superior material alternative for light reflectors adjacent to light sources. **Makrolon® RX** sheets are available with a high surface gloss which maximizes the aesthetics of your fixtures and luminaires e.g. housing or visible external parts.

Makrolon® RX-FR

The sheet provides an outstanding flammability rating and has an UL94 V-0 listing. This is accomplished without sacrificing its performance as a reflector (95%, EN ISO 13468-2). Moreover, the material offers silk-matt surface finish aiding diffuse and uniform reflectance. **Makrolon® RX-FR** offers easy processability and has a wide range of temperature resistance. Put it all together and just like **RX**, **Makrolon® RX-FR** can be applied in commercial and industrial heavy-duty luminaires as reflectors directing the light or as any other inner parts of your light fitting aiding its overall efficiency.



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