
All film and sheet materials are made from UL recognized raw materials, however, due to blending and recycled material usage, no UL recognition or material certification is available on these materials.

ACRYLICS:**LUMIEO™**

This Lumieo designation indicates a customized material has been added to the PMMA resin. The appearance of Lumieo products will be diffuse white. Using products with a Lumieo designation provides high transmittance with improved lamp hiding. A.L.P. recommends a maximum operating temperature up to 80° Celsius to achieve optimum life.

Products: Lumieo (S84 AW060, 080, 125), Lumieo II (LUMII AL080), Light Control Film (RIAL, PIAL)

LUMIEO™ IMPACT

This Lumieo designation indicates an impact modifier along with customized material have been added to the PMMA resin. The appearance of Lumieo products will be diffuse white. Using products with a Lumieo designation provides high transmittance with improved lamp hiding. A.L.P. recommends a maximum operating temperature up to 80° Celsius to achieve optimum life.

Products: Lumieo (S84 DW020), Lumieo II (LUMII AL030), Light Control Film (FIAL)

GENERIC

This "Generic" acrylic classification indicates that the product is made from a variety of acrylic materials and that no UL recognition is available. This generic acrylic material is not recommended for use in high heat or HID applications. Generic acrylic is the most economical of the material options. Generic acrylic may vary in color, diffusion, impact modifier amounts, transmittance, impact strength, etc. A.L.P.'s criteria for these variances is wide and A.L.P. shall be the sole judge of whether a material is defective based on these criteria. Material certification is not generally available.

Products: MicroLinear (PL1 AC080, 118), T10 AC/AR999 1x4, T620A AC/AR 2x4, MicroMid (MMD AC080, 118)

IMPACT

The Impact designation indicates an impact modifier has been compounded into the PMMA resin. The impact modifier increases the ability of the acrylic to withstand higher impact forces. A.L.P. recommends a maximum operating temperature of 70° Celsius to achieve optimum life.

Products: Flexilume (S82 DC020), MicroLinear (PL1 XC032), Light Control Film (FIAC)

WHITE IMPACT

The White Impact designation indicates an impact modifier along with white concentrate have been compounded into the PMMA resin. The impact modifier increases the ability of the acrylic to withstand higher impact forces. The white concentrate is made of acrylic with various mineral pigments such as TiO₂. A.L.P. recommends a maximum operating temperature up to 70° Celsius to achieve optimum life.

Products: Flex G2.0, Flexilume (S82 DW020), Light Control Film (FIAW)

FROST AC

Frost AC is ideally suited for applications requiring a softened appearance, without the use of white pigments. Frost AC uses beads within the AC to diffuse light while maintaining high transmittance. A.L.P. recommends a maximum continuous use of 80° Celsius with this material.

Products: MicroMid (MMD FC080)

DUR-IFLEX™

Dur-iFlex is A.L.P.'s copolyester film offered in clear prismatic which is used primarily as an overlay. Dur-iFlex has exceptional flexibility and good light transmittance. It is intended for applications with modest UV and temperature, such as in fluorescent or LED fixtures where temperatures remain below 60° C. The copolyester used in Dur-iFlex is not a UL recognized material.

Products: Dur-iFlex HT

POLYCARBONATES:**LED**

LED grade polycarbonates have higher transmittance values as minimal additive packages are used. These grade are for use with sources with little or no UV output, and limited outdoor exposure.

Products: MicroMid (MMD PC080, 118)