PLEXIGLAS®
HT121-LPL®
ACRYLIC RESIN

Maximize Light Output Over Long Path Lengths and Reduce the Number of LEDs Required

Plexiglas® HT121-LPL® acrylic resin is a highly heat-resistant acrylic resin, formulated specifically for long path length (LPL) automotive applications such as signature lighting and thick lenses. In addition to the already robust optical properties, chemical resistance, and outdoor stability of Plexiglas® resins, Plexiglas® HT121-LPL® resin has significantly improved light transmission and heat stability, ensuring the polymer’s water-white clarity is maintained after injection molding and in its end-use application.
The exceptionally low absorption coefficient of Plexiglas® HT121-LPL® acrylic maximizes light output in long path applications, providing engineers unparalleled freedom of design. In comparison to polycarbonate resins, Plexiglas® HT121-LPL® acrylic resin has low birefringence and resists scratching. It also has significantly higher LPL light transmission due to its low refractive index and absorption coefficient. While the light transmission of polycarbonate is dramatically decreased when exposed to ultraviolet light, and to a lesser extent high heat, this property remains virtually unchanged in Plexiglas® HT121-LPL® acrylic.