



POLYCARBONATE
MATERIALS EXPERTISE



Pexco's Polycarbonate blends

offer an excellent option for applications where strength and impact resistance are a must.

Formulated to deliver resilience in high traffic areas, Polycarbonate materials are available in a variety of colors, shapes and sizes and can be modified to provide customized, practical solutions for your project.



Pexco's Polycarbonate — lighting the way with strength & style

At **Pexco**, we believe light is more than illumination — it's an experience. The ideal material doesn't just brighten a space; it transforms it, delivering **optimal light output balanced with the perfect amount of diffusion, lasting durability, and stylish impact.**

That's why **Pexco's polycarbonate solutions** are trusted in the toughest environments. From schools and hospitals to parking garages, detention centers, transit stations, and other high-traffic areas, our custom polycarbonate lenses stand strong against vandalism, impact, and demanding safety standards.



We **engineer customized optical polycarbonate blends** to achieve the perfect harmony of **light transmission and diffusion**, ensuring every project shines with clarity and consistency.

The Power of Polycarbonate

Bring your next innovation to life with the unmatched versatility of polycarbonate. As the North American go-to material for outdoor and vandal resistant lenses, our polycarbonate solutions deliver:

- **Exceptional strength**
to withstand impact and wear
- **Thermal stability**
for reliable performance in demanding conditions
- **Optical clarity**
for brilliant, uniform illumination
- **Design flexibility**
to meet the needs of commercial, industrial, and specialty applications

Property	ASTM Test Method	General Purpose PC
Physical		
Specific Gravity	D-792	1.2 g/cm ³
Optical		
Light Transmission	ASTM D-1003	88%
Rockwell Hardness	D-785 (M Scale)	77
Tensile Strength	D-638	62 MPa
Tensile Modulus	ISO 527-2/1	2400 MPa
Flexural Strength	D-780	90 MPa
Flexural Modulus	D-790	2260 MPa
Notched Izod Impact (3.20 mm)	D-256	930 J/m
Thermal		
Deflection Temp Under Load (1.8 MPa, Unannealed)	D-648 (°C)	131
Flammability	UL94	HB at 1.50 mm V-2 at .400 mm

Bring your next innovation to life with the versatility of polycarbonate.
With Pexco, your lighting solutions don't just perform — they inspire.

Get in touch with our experts.

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