display protect solutions
cover lenses for electronic devices

POLYCARBONATE, ACRYLIC OR GLASS?

Choosing the correct material for your display cover lens.



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POLYCARBONATE

WHEN DURABILITY MATTERS

- Exceptional impact resistance
- Lightweight
- Easily CNC machined
- Wide range of hard-coated optical finishes
- Suitable for demanding environments

BEST SUITED TO

- Rugged industrial, transportation and portable equipment



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ACRYLIC / PMMA

WHEN OPTICAL CLARITY MATTERS

- Excellent optical transmission
- Good inherent surface hardness
- Excellent UV/weathering resistance
- Lightweight
- Good machining characteristics

BEST SUITED TO

- Instrumentation, displays and applications requiring excellent optical appearance.



GLASS

WHEN OPTICAL AND SURFACE PERFORMANCE MATTERS

- Excellent optical clarity
- Very high surface hardness
- Excellent scratch resistance
- Strong chemical resistance
- Available with AG and AR treatments
- Premium appearance and feel

BEST SUITED TO

- High-end displays, touchscreens, medical equipment and demanding optical applications.



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QUICK COMPARISON

Property	PC	PMMA	GLASS
Impact resistance	★★★★★	★★★	★★
Optical Clarity	★★★★	★★★★★	★★★★★
Abrasion resistance*	★★★	★★★★	★★★★★
UV resistance	★★★	★★★★★	★★★★★
Lightweight	★★★★★	★★★★★	★★★
Chemical resistance	★★	★★★	★★★★★

FIRE PERFORMANCE

Flame-retardant polymer grades, including UL 94 rated materials, are available where required by the application.

Indicative comparison — performance varies by grade, thickness and treatment.

*Polymer performance can be significantly improved with specialist hard coatings.

MORE THAN JUST A SUBSTRATE

THE RIGHT SURFACE CAN BE JUST AS IMPORTANT AS THE RIGHT MATERIAL

- Clear hard coating
- Anti-glare (AG)
- Anti-reflective (AR)
- ESD/Anti-static
- UV and IR filtering
- Anti-microbial
- Anti-finger print



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THE RIGHT COVER LENS STARTS WITH THE APPLICATION

DPS provides precision polymer and glass cover lens solutions for electronic displays — from material and optical finish selection through to machining, printing and integration.

Precision cover lenses. Engineered around your application.


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