



Eastman SPECTAR™ copolyester

Eastman Spectar™ copolyester is a plastic resin specifically designed for sheet applications. Spectar is produced in pellet form by Eastman Chemical Company and is available in gauges ranging from 0.02" to 0.5". It can be ordered in crystal-clear, white, and colors (minimum order quantities for colors). UV-absorbing grades for long-term outdoor use are also available.

Sheet extruded from Eastman Spectar™ copolyester may be used in place of acrylic or polycarbonate in typical graphic, point-of-purchase displays (POP), or visual merchandising applications.

Materials comparison chart

Criteria	Eastman Spectar™ copolyester	IMA	Acrylic	PC	PS	PVC
GREENGUARD® certification	Yes	No	No	No	No	No
Impact strength	●	○	○	●	○	○
See-through clarity	●	○	○	○	○	○
Edge clarity	○	○	○	○	○	○
Heat bending	○	○	○	○	○	○
Flexibility	○	○	○	○	○	○
Thermoforming (3D designs)	●	○	○	○	○	○
Chemical resistance	○	○	○	○	○	○
Minor scratch removal	○	○	○	○	○	○
Downgauging possibilities	○	○	○	○	○	○

Eastman Spectar™ copolyester resins sold as Spectar sheet from Spartech Plastics.

- = Best
- = Good
- = Average
- = Fair

Typical applications

- Displays and fixtures
- Indoor signage
- POP displays
- Shelving systems

Did you know?

Eastman Spectar™ copolyester is often a lower-cost option compared to acrylic when considering the cost of fabrication, packaging, shipping, and breakage.

Know the facts about sheet extruded from Eastman Spectar™ copolyester

Durability

- Incredible impact strength minimizes safety and liability concerns (18 times stronger than general-purpose acrylic and up to 5 times stronger than impact-modified acrylic).
- Superior chemical resistance allows parts to be cleaned with common cleansers (Windex™ and Formula 409™) without hazing or crazing.
- Reduced shipping breakage by 20%; reduced packaging by 60%; compared to acrylic, breakage on installation is reduced 20%.
- Perfect in heavy-traffic areas and ideally suited for high-turnover products.

Sustainability

- Carbon footprint cradle-to-pellet is 50% less than acrylic and polycarbonate.
- Less plastic in the environment compared to acrylic due to the durability of Eastman Spectar™ copolyester and the ability to downgauge.
- Energy extrusion is 3.5 times less than acrylic.
- Manufactured without BPA, halogen, lead, and mercury.
- Cleared for use in food contact applications by the FDA.
- Regrind is reusable in virgin stream, resulting in material savings without sacrificing superior quality.

Flexibility

- Easy to bend and shape for outstanding design freedom and intricate design options.
 - Faster hot-line bends—30% faster than acrylic.
 - Easy to cold bend without stress whitening or breaking.
- Can achieve deeper draws and thermoforms 30%–50% faster than acrylic.
- Exceptional clarity gives the look of glass.
- Easy to die cut.
- Able to screen print and hot stamp.
- Can use straight, fluted, or spiral router bits.
- Can be flame polished.
- Can be adhesive bonded.

For more information

Call 800-Eastman or send an email to spectar@eastman.com.

Or visit online to learn more

- General information: www.eastman.com/Spectar
- Design inspiration: www.EastmaneZone.com
- Technical information: www.eastman.vmtc.com

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