

DuraStar Polymer

DuraStar polymer is Eastman's newest and clearest copolyester designed for injection molding. It is easy to process with a wide processing window, filling the most intricate mold. Its processability coupled with its outstanding chemical resistance makes it well suited for thick-walled applications. *DuraStar* polymer has FDA and NSF 51 approval for food-contact applications such as food storage bins. Add all this up and you have a material of choice for your injection-molded display.

Features

- High gloss and clarity
- Good toughness and elongation
- Excellent chemical resistance
- Shorter drying schedules
- Faster cycle times



Typical Uses

- Toys
- Food bins
- Clear appliance parts
- Pens
- Point-of-purchase displays

Products Available

DuraStar polymer 1000

DuraStar polymer 1010 (mold release)

- Suitable for wall thickness up to 0.5 inches

DuraStar polymer 2000

DuraStar polymer 2010 (mold release)

- Excellent impact toughness
- Suitable for wall thickness up to 0.25 inches

Competitive Material	Competitive Material's Advantage(s) vs. <i>DuraStar</i> Polymer	<i>DuraStar</i> Polymer's Advantage(s) vs. Competitive Material
K-resin	Less expensive	Clarity Toughness Chemical resistance
Polycarbonate	Toughness Temperature resistance	Less expensive Chemical resistance
Acrylic	Scratch resistance Clarity	Toughness Chemical resistance
Impact-Modified Acrylic	None	Clarity Chemical resistance
Styrenics	Less expensive Clarity	Toughness Chemical resistance
TABS	Ease of processing	Less expensive Chemical resistance Clarity
PETG	Less expensive	Ease of processing Drying Chemical resistance

Literature Available

- MBS-224 *Eastman* Copolyesters—Take Your Injection Molded Displays to the Next Dimension
- MBS-236 *DuraStar* Polymer—The Right Mix
 - PP-18 Keys to Successful Molding of *Eastman* Polymers
 - PP-19 *Eastman's* Clear Polymers—Exceptional Resins for Injection Molding
 - PP-20 Processing Guide for *DuraStar* Polymers
 - PP-21 Processing Guidelines for *DuraStar* DS1000/DS1010 Polymer
- PPD-406 Appliance Materials Selector Guide



For additional information,
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Material Safety Data Sheets providing safety precautions that should be observed in handling and storing Eastman products are available online or on request. You should obtain and review the available material safety information before handling any of these products. If any materials mentioned are not Eastman products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed.

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