

Technical Data Sheet

Eastar™ Copolyester EB062

Applications

- Blow molding
- Condiments/dressings/sauces packaging
- Fruit juice drinks packaging
- Handeware-fruit juice
- Jams/fruit sauces packaging
- Liquor/wine packaging
- Packaging component - food contact
- Single use articles - food contact
- Sport drinks packaging
- Teas/new age/other beverages packaging
- Water packaging

Key Attributes

- Effective barrier properties
- Excellent appearance and high-gloss clarity
- Free of gels and unmelts
- Great for replacing PVC and other materials of concern
- High durability; great for heavier liquids and solids
- Low parison length variation
- Processes well on most continuous shuttle EBM machines
- Processes well on most continuous wheel EBM machines
- Processes well on most intermittent reciprocating-screw EBM machines
- Wide processing window

Product Description

Eastar™ EB062 copolyester is a resin specifically designed for extrusion blow-molded bottles and jars for use in food and beverage and home care applications. Its high drop strength makes it particularly well suited for containers that hold heavier contents, including liquids and dense solids. Eastar EB062 is recognized throughout the industry for its best-in-class aesthetics and process ease. It has high-gloss clarity and is free of gels and unmelts that are common in some competitive resins. Eastar EB062 is a hassle-free, economical choice for replacing materials of concern, such as polyvinyl chloride (PVC), in consumer packaging. This product is certified to NSF/ANSI Standard 51 for Food Equipment Materials.

Eastar EB062 is cleared for various food contact applications (including contact with most alcoholic beverages) by FCN No. 1234 as described in the Food and Drug Administration (FDA) Inventory of Effective Food Contact Substance Notifications and may be used in full compliance with the U.S. Federal Food, Drug, and Cosmetic Act, provided that it is used within the limitations set forth for FCN 1234.

This product has been GREENGUARD Indoor Air Quality certified. The GREENGUARD Indoor Air Quality certified mark is a registered certification mark used under license through the GREENGUARD Environmental Institute (GEI). GEI is an industry-independent, nonprofit organization that oversees the GREENGUARD Certification Program. The GREENGUARD Certification Program is an industry-independent, third-party testing program for low-emitting products and materials for indoor environments. For more information about GEI and to obtain printable certificates for Eastman copolyesters, visit www.greenguard.org. Choose Eastman Chemical Company under the "Manufacturer" category, and click search to display a list of our products.

This product has been Cradle to Cradle Certified™ Bronze with Material Health Certificate—Platinum. The Cradle to Cradle Certified™ mark is a registered certification mark used under license through the Cradle to Cradle Products Innovation Institute, a nonprofit organization that administers the publicly available Cradle to Cradle Certified™ Product Standard, which provides designers and manufacturers with criteria and requirements for continually improving product materials and manufacturing processes. The Cradle to Cradle Certified™ Product Standard

guides designers and manufacturers through a continual improvement process that looks at a product through five quality categories—material health, material reutilization, renewable energy and carbon management, water stewardship, and social fairness. A product receives an achievement level in each category—Basic, Bronze, Silver, Gold, or Platinum—with the lowest achievement level representing the product’s overall mark.

The Material Health Certificate provides manufacturers with a trusted way to communicate their efforts to identify and replace chemicals of concern in their products. For more information about Cradle to Cradle certification and to obtain printable certificates for Eastman copolyesters, visit www.c2ccertified.org. Search for Eastman Chemical Company in Cradle to Cradle Certified™ Products Registry.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General Properties		
Density	D 792	1.25 g/cm ³
Mold Shrinkage	D 955	0.3 %
Mechanical Properties		
Tensile Stress @ Yield	D 638	47 MPa (6900 psi)
Tensile Stress @ Break	D 638	48 MPa (7000 psi)
Elongation @ Yield	D 638	5 %
Elongation @ Break	D 638	300 %
Tensile Modulus	D 638	1900 MPa (2.7 x 10 ⁵ psi)
Flexural Modulus	D 790	1900 MPa (2.7 x 10 ⁵ psi)
Flexural Strength	D 790	65 MPa (9400 psi)
Rockwell Hardness, R Scale	D 785	105
Izod Impact Strength, Notched ^d		
@ 23°C (73°F)	D 256	NB
@ -40°C (-40°F)	D 256	63C J/m (1.2C ft·lbf/in.)
Impact Strength, Unnotched ^e		
@ 23°C (73°F)	D 4812	NB
@ -40°C (-40°F)	D 4812	NB
Impact Resistance (Puncture), Energy @ Max. Load		
@ 0°C (32°F)	D 3763	41 J (30 ft·lbf)
@ 23°C (73°F)	D 3763	41 J (30 ft·lbf)
@ -40°C (-40°F)	D 3763	39 J (29 ft·lbf)
Optical Properties		
Haze	D 1003	1.3 %
Gloss		
@ 60°	D 2457	143
Regular Transmittance	D 1003	87 %
Total Transmittance	D 1003	91 %
Color		
a*	D 2244	-0.2
b*	D 2244	0.6
L*	D 2244	95.0
Thermal Properties		
Deflection Temperature		
@ 0.455 MPa (66 psi)	D 648	73 °C (163 °F)
@ 1.82 MPa (264 psi)	D 648	63 °C (145 °F)
Vicat Softening Temperature	D 1525	85 °C (185 °F)

^aUnless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^bUnless noted otherwise, the test method is ASTM.

^cUnits are in SI or US customary units.

^dC = Complete Break; Nonbreak as defined by ASTM D 256.

^eNonbreak as defined by ASTM D 4812.

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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