

# Product Data Sheet

## Eastar™ Copolyester EB062

### Application/Uses

- Bottles
- Cosmetic packaging
- Extrusion blow molding
- Personal care bottles

### Key Attributes

- Easy to extrude, cut, print, and seal
- Effective barrier properties
- Excellent chemical resistance
- Excellent clarity
- Excellent colorability
- Good impact strength
- Good stiffness
- High gloss appearance
- Toughness

### Product Description

Eastar™ Copolyester EB062 is a resin specifically developed for extrusion blown bottles where aesthetics such as high clarity and gloss, coupled with design flexibility, drive demand. Compared to commonly used materials, Eastar™ copolyester EB062 runs on most standard processing equipment. Extremely high melt strength makes the resin an excellent choice when manufacturing bottles.

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This product is certified to NSF/ANSI Standard 51 for Food Equipment Materials.

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### Typical Properties

Property <sup>a</sup>	Test <sup>b</sup> Method	Typical Value, Units <sup>c</sup>
<b>General Properties</b>		
Density	D 792	1.25 g/cm <sup>3</sup>
Mold Shrinkage	D 955	0.3%
<b>Mechanical Properties</b>		
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 <sup>5</sup> psi )
Flexural Modulus	D 790	1900 MPa (2.7 x 10 <sup>5</sup> psi )
Flexural Strength	D 790	65 MPa (9400 psi)
Rockwell Hardness, R Scale	D 785	105
Izod Impact Strength, Notched <sup>d</sup>		
@ 23°C (73°F)	D 256	NB
@ -40°C (-40°F)	D 256	63C J/m (1.2C ft·lbf/in.)
Impact Strength, Unnotched <sup>e</sup>		
@ 23°C (73°F)	D 4812	NB
@ -40°C (-40°F)	D 4812	NB
Impact Resistance (Puncture), Energy @ Max. Load		
@ 23°C (73°F)	D 3763	41 J (30 ft·lbf)
@ 0°C (32°F)	D 3763	41 J (30 ft·lbf)
@ -40°C (-40°F)	D 3763	39 J (29 ft·lbf)
<b>Thermal Properties</b>		
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)
<b>Optical Properties</b>		
Haze	D 1003	1.3%
Gloss @ 60°	D 2457	143
Regular Transmittance	D 1003	87%
Total Transmittance	D 1003	91%
Color		
L*	D 2244	95.0
a*	D 2244	-0.2
b*	D 2244	0.6

- a Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.
- b Unless noted otherwise, the test method is ASTM.
- c Units are in SI or US customary units.
- d C = Complete Break; Nonbreak as defined by ASTM D 256.
- e Nonbreak 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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