

Product Data Sheet

Eastar Copolyester EB062

Application/Uses

- Beverage packaging
- Bottles
- Extrusion blow molding
- Food packaging
- 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 large bottles.

Typical Properties

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		
@ 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)

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)

Optical Properties

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

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.

19-Nov-2003 6:41:38 AM