

## Product Data Sheet

### Eastar™ Copolyester EN067, Natural

#### Application/Uses

- Compacts
- Cosmetics/personal care packaging
- Deodorant packaging
- Fragrance caps
- Fragrance packaging
- Lipstick containers
- Personal care bottles
- Plastics for hygiene feminine products
- Toothbrushes
- Toys/Sporting goods
- Writing instruments

#### Product Description

Eastar™ Copolyester EN067 is a copolymer PET with good color. This product is supplied as a crystalline pellet that has improved flowability characteristics. Due to slower crystallization kinetics, this product is capable of producing a part free of crystalline haze upon injection molding.

This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

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#### Typical Properties (Preliminary)

Property <sup>a</sup>	Test <sup>b</sup> Method	Typical Value, Units <sup>c</sup>
Specific Gravity	D 792	1.32
Mold Shrinkage Parallel to Flow, 3.2-mm (0.125-in.) thickness		0.002-0.005 mm/mm (0.002-0.005 in./in.)
<b>Mechanical Properties</b>		
Tensile Stress @ Yield	D 638	57 MPa (8200 psi)
Tensile Stress @ Break	D 638	24 MPa (3500 psi)
Elongation @ Yield	D 638	4%

Elongation @ Break	D 638	134%
Flexural Modulus	D 790	2600 MPa (3.8 x 10 <sup>5</sup> psi )
Flexural Strength	D 790	81 MPa (11700 psi)
Rockwell Hardness, R Scale	D 785	110
Izod Impact Strength, Notched		
@ 23°C (73°F)	D 256	58 J/m (1.1 ft·lbf/in.)
@ -40°C (-40°F)	D 256	29 J/m (0.5 ft·lbf/in.)
Impact Strength, Unnotched		
@ 23°C (73°F)	D 4812	NB
@ -40°C (-40°F)	D 4812	NB

### Thermal Properties

Deflection Temperature		
@ 0.455 MPa (66 psi)	D 648	66°C (151°F)
@ 1.82 MPa (264 psi)	D 648	61°C (142°F)

### Optical Properties

Regular Transmittance	D 1003	81%
Total Transmittance	D 1003	84%

### Typical Processing Conditions

Drying Temperature	150-160°C (300-320°F)
Drying Time	4-6 hrs
Processing Melt Temperature	270-290°C (520-550°F)
Mold Temperature	10-30°C (50-90°F)

<sup>a</sup> Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

<sup>b</sup> Unless noted otherwise, the test method is ASTM.

<sup>c</sup> Units are in SI or US customary units.

### Comments

Properties reported here are based on limited testing. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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