

Technical Data Sheet

Estar™ Copolyester EN067

Applications

- Appliances (food contact)
- Bottles-fragrance pkg
- Color cosmetics packaging
- Consumer housewares-nfc
- Deoderant containers
- Equipment & machinery
- Fragrance packaging
- Jars-skin care pkg
- Non-kitchen appliances
- Packaging components non food contact
- Pens/stationary
- Personal care & cosmetics packaging
- Point-of-purchase
- Skin care packaging
- Small appliances non-food contact
- Water/sport bottles

Product Description

Estar™ 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 is tailored for the injection-molded cosmetics and personal care market.

This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED

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Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General		
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.)
Mechanical Properties		
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 (3.8×10^5 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
Optical Properties		
Regular Transmittance	D 1003	81 %
Total Transmittance	D 1003	84 %
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)
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)

^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.

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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