

Technical Data Sheet

Eastman Cadence™ Copolyester GS3

Applications

- Flooring
- Furniture
- Labels non food contact
- Shrink film non food contact
- Transaction cards
- Wallpaper
- Wood furniture

Product Description

Eastman Cadence™ GS3 is a high-melt-strength amorphous copolyester for film calendering. Calendered films made of Eastman Cadence™ copolyesters are non-crystallizing, are halogen-free, offer wide calendering and thermoforming windows and have good low-temperature toughness. They are cooperative in secondary operations such as solvent-bonding, lamination, decoration, cold-forming, punching/cutting and embossment.

Eastman Cadence™ resins require no pre-drying or additional stabilizers.

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, non-profit 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.gei.com](#). 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.cradletothecradle.com](#). Search for Eastman Chemical Company in *Cradle to Cradle Certified* Products Registry.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
Electrical Properties		
Dielectric Constant		
1 kHz	D 150	2.54
1 MHz	D 150	2.43
Dissipation Factor		
1 kHz	D 150	0.025
		0.019

1 MHz	D 150	
Arc Resistance	D 495	135 sec
Volume Resistivity	D 257	7.05×10^{16} ohm·cm
Surface Resistivity	D 257	1.28×10^{16} ohms/square
Dielectric Strength, Short Time, 500 V/sec rate-of-rise	D 149	15.1 kV/mm (384 V/mil)
General Properties		
Density	D 1505	1.28 g/cm ³
Oxygen Index	D 2863	24.2 %
Water Absorption, 24 h immersion	D 570	0.15 %
Thermal Properties		
Deflection Temperature		
@ 0.455 MPa (66 psi)	D 648	69 °C (156 °F)
@ 1.82 MPa (264 psi)	D 648	62 °C (144 °F)
Vicat Softening Temperature	D 1525	81 °C (178 °F)
Coefficient of Linear Thermal Expansion		
@ -30°C to 30°C (-22°F to 86°F)	D 696	7.52×10^{-5} /°C (mm/mm·°C) (4.18×10^{-5} /°F (in./in·°F))
Specific Heat		
@ 100°C (212°F)	DSC	1.7 kJ/kg·K (0.41 Btu/lb·°F)
@ 150°C (302°F)	DSC	1.8 kJ/kg·K (0.44 Btu/lb·°F)
@ 200°C (392°F)	DSC	2.0 kJ/kg·K (0.47 Btu/lb·°F)
@ 250°C (482°F)	DSC	2.1 kJ/kg·K (0.49 Btu/lb·°F)
@ 60°C (140°F)	DSC	1.3 kJ/kg·K (0.31 Btu/lb·°F)
Glass Transition Temperature (T _g)	DSC	80 °C (176 °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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