EASTMAN

Technical Data Sheet

Eastman Cadence™ Copolyester GS5

Applications

- Decorative laminates-cabinetry
- Decorative laminates-wood
- Flooring
- Labels non food contact
- Shrink film non food contact
- Transaction cards
- Wallpaper
- Walls
- Wood furniture

Product Description

Eastman Cadence™ GS5 is an amorphous copolyester with improved processability for film calendering. Calendered films made of Eastman Cadence™ copolyester 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 . 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 . Search for Eastman Chemical Company in *Cradle to Cradle Certified* Products Registry.

Typical Properties

Property[a]	Test Method[b]	Typical Value, Units[c]
Calender Film: Clear (Unpigmented)		
Specific Gravity	D 792	1.27
Tensile Strength @ Break		
M.D.	D 882	50 MPa (7200 psi)

T.D.	D 882	48 MPa (7000 psi)
Tensile Modulus, Tangent		
M.D.	D 882	1870 MPa (2.7 x 10^5 psi)
T.D.	D 882	1825 MPa (2.6 x 10^5 psi)
Tensile Modulus, 1% Secant		
M.D.	D 882	1800 MPa (2.6 x 10^5 psi)
T.D.	D 882	1760 MPa (2.6 x 10^5 psi)
Brittleness Temperature by Impact[d]	D 1790	-45 °C (-49 °F)
Durometer Hardness		
Shore A Scale	D 2240	83
Shore D Scale	D 2240	73
Calender Film: Opaque White (Pigmented with TiO2)		
Specific Gravity[e]	D 792	1.42
Tensile Strength @ Break		
M.D.	D 882	47 MPa (6800 psi)
T.D.	D 882	45 MPa (6500 psi)
Tensile Modulus, Tangent		
M.D.	D 882	2050 MPa (3.0 x 10^5 psi)
T.D.	D 882	2050 MPa (3.0 x 10^5 psi)
Tensile Modulus, 1% Secant		
M.D.	D 882	2000 MPa (2.9 x 10^5 psi)
T.D.	D 882	1950 MPa (2.9 x 10^5 psi)
Brittleness Temperature by Impact[d]	D 1790	-40 °C (-40 °F)
Durometer Hardness		
Shore A Scale	D 2240	86
Shore D Scale	D 2240	74

[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]*Data shown indicate test temperature at which all specimens break.*
[e]*Dependent upon colorant, fillers, etc.*

General

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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