# Cadence™ GS4

## Copolyester

### Eastman Chemical Company

#### Message:

Thermal

Eastman Cadence<sup>™</sup> GS4 is a high-flow amorphous copolyester for film calendering. Calendered films made of Eastman Cadence<sup>™</sup> 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<sup>™</sup> resins require no pre-drying or additional stabilizers.

This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

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The CRADLE TO CRADLE CERTIFIED Mark is a registered certification mark used under license through McDonough Braungart Design Chemistry (MBDC). MBDC is a global sustainability consulting and product certification firm. The CRADLE TO CRADLE ® framework moves beyond the traditional goal of reducing the negative impacts of commerce ('eco-efficiency'), to a new paradigm of increasing its positive impacts ('eco-effectiveness'). At its core, Cradle to Cradle design perceives the safe and productive processes of nature's 'biological metabolism' as a model for developing a 'technical metabolism' flow of industrial materials. Product components can be designed for continuous recovery and reutilization as biological and technical nutrients within these metabolisms. For more information about MBDC and to obtain printable certificates for Eastman Copolyesters, visit www.mbdc.com. Choose Eastman Chemical Company under Company Name in C2C Certified products to display a list of our products.

General Information					
Features	Amorphous				
	Halogen Free				
	High Flow				
	Low Temperature Toughness				
Uses	Bags				
	Film				
	Flooring Maintenance/Repair				
	Furniture				
	Labels				
	Laminates				
	Packaging				
	Shrink Wrap				
Forms	Pellets				
Processing Method	Calendering				
	Thermoforming				
Physical	Nominal Value	Unit	Test Method		
Density	1.28	g/cm³	ASTM D1505		
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570		

Unit

Test Method

Nominal Value

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	68.0	°C	
1.8 MPa, Unannealed	63.0	°C	
Glass Transition Temperature	80.0	°C	DSC
Vicat Softening Temperature	79.0	°C	ASTM D1525
CLTE - Flow (23°C)	7.6E-5	cm/cm/°C	ASTM D696
Specific Heat			DSC
60°C	1300	J/kg/°C	
100°C	1700	J/kg/°C	
150°C	1800	J/kg/°C	
200°C	2000	J/kg/°C	
250°C	2100	J/kg/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+16	ohms	ASTM D257
Volume Resistivity (23°C)	4.6E+16	ohms·cm	ASTM D257
Dielectric Strength <sup>1</sup> (23°C)	16	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
23°C, 1 kHz	3.20		
23°C, 1 MHz	2.95		
Dissipation Factor			ASTM D150
23°C, 1 kHz	0.017		
23°C, 1 MHz	0.022		
Arc Resistance	134	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	25	%	ASTM D2863
	29	70	
NOTE			

1.

500 V/sec, Method A (Short-Time)

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#### Recommended distributors for this material

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