

Eastman Cadence™ GS2 Copolyester for film calendering

Category : Polymer , Film , Thermoplastic , Polyester, TP , Polyester Film

Material Notes:

Eastman Cadence™ copolyester, for calendered films, is a specialty plastic developed to meet the demand for an environmentally responsible material for the calendering industry. Available in different grades, it features ease of processing, high-melt strength, aesthetics, clarity and gloss. Benefits Can be used on existing calendering lines with no or minimal modification. No drying is needed prior to the calendering process. Good thermal stability during normal calendering process conditions. No corrosive degradation products are normally formed. Easy to emboss for added texture and dimensions with standard engraved rolls. Easy to decorate using offset lithography, flexographic, and screen-printing processes. Thermoforms easily and is compatible with commercial adhesives used in lamination processes Environmentally responsible material. Product description: Eastman Cadence GS5 is an amorphous copolyester with improved processability 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. Application/Uses Appliance films Architectural laminates Automotive films Bags Decorative laminates Electronic laminates Floor coverings Furniture/Furniture trim Labels Outdoor films Packaging Printable films Shrink film Transaction cards Transportation laminates Wall coverings Reported typical properties are preliminary. Information was provided by Eastman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Cadence-GS2-Copolyester-for-film-calendering.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D1505
Water Absorption	0.15 % @Time 86400 sec	0.15 % @Time 24.0 hour	Immersion; ASTM D570

Thermal Properties	Metric	English	Comments
CTE, linear	76.8 µm/m-°C @Temperature -30.0 - 30.0 °C	42.7 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Specific Heat Capacity	1.30 J/g-°C @Temperature 60.0 °C	0.310 BTU/lb-°F @Temperature 140 °F	DSC
	1.72 J/g-°C @Temperature 100 °C	0.410 BTU/lb-°F @Temperature 212 °F	DSC
	1.84 J/g-°C @Temperature 150 °C	0.440 BTU/lb-°F @Temperature 302 °F	DSC
	1.97 J/g-°C @Temperature 200 °C	0.470 BTU/lb-°F @Temperature 392 °F	DSC

Thermal Properties	Metric	English	Comments
	2.00 J/g-°C	0.48 BTU/lb-°F	
	@Temperature 250 °C	@Temperature 482 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	71.0 °C	160 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	64.0 °C	147 °F	ASTM D648
Vicat Softening Point	81.0 °C	178 °F	ASTM D1525
Glass Transition Temp, Tg	82.0 °C	180 °F	DSC
Oxygen Index	24.1 %	24.1 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.32e+16 ohm-cm	3.32e+16 ohm-cm	ASTM D257
Surface Resistivity per Square	1.65e+16 ohm	1.65e+16 ohm	ASTM D257
Dielectric Constant	2.62	2.62	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	2.78	2.78	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	15.6 kV/mm	396 kV/in	Short time, 500 V/sec rate-of-rise; ASTM D149
Dissipation Factor	0.014	0.014	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.020	0.020	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	133 sec	133 sec	ASTM D495

Descriptive Properties	Value	Comments
Greenguard Indoor Air Quality Certified	yes	

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