

Eastman Eastar 5445 PCTG Copolyester, Film (discontinued **)

Category : Polymer , Film , Thermoplastic , Polyester, TP , Polycyclohexylenedimethylene Terephthalate (PCT) , Glycol-Modified PCT (PCTG) Copolyester

Material Notes:

Eastar PCTG 5445 is an amorphous copolyester. Because of its clarity, toughness and good melt strength, Eastar PCTG Copolyester 5445 is useful in a number of applications. It has high gloss and is transparent. It is tough and resistant to stress whitening. It has fast forming cycles and is easy to form. Eastar PCTG Copolyester 5445 is sterilizable by both gamma radiation and ethylene oxide (ETO) methods. Its scrap can be reused. Applications/Uses Bags Credit cards Gaming cards Identification cards Plastic Cards Rigid medical Blister packaging Debit cards Gift cards Phone cards Rapid deployment flood walls Smart cards Key Attributes Excellent clarity Effective barrier properties Excellent colorability Good stiffness Sterilizable with ethylene oxide, electron beam, and gamma rays

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-5445-PCTG-Copolyester-Film-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D1505
Melt Density	1.08 g/cc @Temperature 285 °C	0.0390 lb/in ³ @Temperature 545 °F	ASTM D1238
Water Vapor Transmission	7.00 g/m ² /day	0.451 g/100 in ² /day	ASTM F372
Oxygen Transmission	11.0 cc-mm/m ² -24hr-atm	27.9 cc-mil/100 in ² -24hr-atm	ASTM D3985
Carbon Dioxide Transmission	49.0 cc-mm/m ² -24hr-atm	124 cc-mil/100 in ² -24hr-atm	ASTM D1434
Thickness	250 microns	9.84 mil	ASTM D374

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	45.0 MPa	6530 psi	ASTM D882
Film Tensile Strength at Yield, TD	44.0 MPa	6380 psi	ASTM D882
Tensile Modulus	1.60 GPa	232 ksi	TD; ASTM D882
	1.60 GPa	232 ksi	MD; ASTM D882
Coefficient of Friction	0.50	0.50	ASTM D1894
Elmendorf Tear Strength, MD	>= 12.0 g/micron	>= 305 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	>= 12.0 g/micron	>= 305 g/mil	ASTM D1922
Dart Drop	1.84 g/micron	46.7 g/mil	23°C; ASTM D1709
	2.16 g/micron	54.9 g/mil	at -18°C; ASTM D1709

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	53.0 MPa	7690 psi	ASTM D882
Film Tensile Strength at Break, TD	53.0 MPa	7690 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.09 J/g-°C	0.261 BTU/lb-°F	DSC
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	1.14 J/g-°C	0.272 BTU/lb-°F	DSC
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.64 J/g-°C	0.392 BTU/lb-°F	DSC
	@Temperature 100 °C	@Temperature 212 °F	
	1.86 J/g-°C	0.445 BTU/lb-°F	DSC
	@Temperature 180 °C	@Temperature 356 °F	
	2.16 J/g-°C	0.516 BTU/lb-°F	DSC
	@Temperature 290 °C	@Temperature 554 °F	
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft²-°F	ASTM C177
Glass Transition Temp, Tg	87.0 °C	189 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.56	1.56	n_D; ASTM D542
Haze	1.0 %	1.0 %	ASTM D1003
Gloss	98 %	98 %	at 60°; ASTM D2457
Transmission, Visible	91 %	91 %	Total Transmittance; ASTM D1003

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