

Topas Advanced Polymers TOPAS® 9506F-500 Cyclic Olefin Copolymer (COC)

Category : Polymer , Thermoplastic , Cyclo Olefin Polymer

Material Notes:

TOPAS® 9506F-500 is a high clarity extrusion grade for use in shrink, food and medical packaging as either a discrete layer in multilayer film or in blends with polyethylene. It is designed to deliver high shrinkage at low temperatures in shrink packaging applications. It has low glass transition temperature and provides excellent clarity, stiffness, water vapor barrier and good thermoformability. Key applications and attributes: Shrink films and labels: High shrink at low temperatures, low stress, toughness Food packaging: Not manufactured with BPA, phthalates, or halogens Food contact: Broad regulatory approval Information provided by TOPAS Advanced Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Topas-Advanced-Polymers-TOPAS-9506F-500-Cyclic-Olefin-Copolymer-COC.php

Physical Properties	Metric	English	Comments
Oxygen Permeability	775 cm ³ mil/(m ² day atm)	50.0 cm ³ mil/(100 in ² day atm)	50% RH; ASTM D3985
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Water Vapor Permeability	4.60 g mil/ (m ² day)	0.297 g mil/ (100 in ² day)	90% RH; ISO 15106-3
	@Temperature 38.0 °C	@Temperature 100 °F	
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Water Absorption at Saturation	0.010 %	0.010 %	ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Thickness	70.0 microns	2.76 mil	Film
Melt Flow	0.92 g/10 min	0.92 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	5.5 g/10 min	5.5 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	2.9 %	2.9 %	ISO 527-3
Film Elongation at Break, TD	3.6 %	3.6 %	ISO 527-3
Tensile Modulus	1.70 GPa	247 ksi	Film, MD; ISO 527-3
	2.00 GPa	290 ksi	Film, TD; ISO 527-3
Elmendorf Tear Strength MD	230 g	230 g	ISO 6383-2

Mechanical Properties	Metric	English	Comments
Dart Drop Test	<= 36.0 g	<= 0.0794 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	55.0 MPa	7980 psi	ISO 527-3
Film Tensile Strength at Break, TD	55.0 MPa	7980 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	65.0 °C	149 °F	10°C/min; ISO 11357-1,-2,-3

Optical Properties	Metric	English	Comments
Haze	>= 2.0 %	>= 2.0 %	Film; ISO 14782
Gloss	>= 100 %	>= 100 %	60°, Film; ISO 2813

Descriptive Properties	Value	Comments
Type of film extrusion	Cast	Test specimen

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