

Topas Advanced Polymers TOPAS® 8007F-04 Cyclic Olefin Copolymer (COC)

Category : Polymer , Thermoplastic , Cyclo Olefin Polymer

Material Notes:

TOPAS® 8007F-04 is a general purpose film extrusion grade. It is a high clarity amorphous resin with high stiffness, moisture barrier, chemical resistance, thermoformability and purity for food and healthcare applications. It is used in monolayer cast applications, and in coextrusion in both cast and blown processes, for a wide variety of film and sheet products requiring excellent optics in applications such as blister, twist, barrier, shrink and easy tear packaging. Industrial uses include formed decorative sheet products. Key applications and attributes: Pharmaceutical blisters: Clarity, forming, barrier, purity, halogen-free Deep draw barrier trays: Excellent deep draw, unlike other barriers Shrink films and labels: High shrink, low stress, gloss, clarity, toughness Twist films: High gloss, outstanding deadfold, clean cutting Decorative sheet: Gloss, hardness, chemical resistance, forming Food packaging: Not manufactured with BPA, phthalates, or halogens Information provided by TOPAS Advanced Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Topas-Advanced-Polymers-TOPAS-8007F-04-Cyclic-Olefin-Copolymer-COC.php

Physical Properties	Metric	English	Comments
Oxygen Permeability	977 cm ³ mil/(m ² day atm)	63.0 cm ³ mil/(100 in ² day atm)	
Water Vapor Permeability	3.70 g mil/ (m ² day)	0.239 g mil/ (100 in ² day)	
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Water Absorption at Saturation	0.010 % @Temperature 23.0 °C	0.010 % @Temperature 73.4 °F	ISO 62
Water Vapor Transmission	0.000800 g/m ² /day @Temperature 38.0 °C	0.0000515 g/100 in ² /day @Temperature 100 °F	90% RH; ISO 15106-3
Thickness	70.0 microns	2.76 mil	Film
Melt Flow	1.8 g/10 min @Load 2.16 kg, Temperature 190 °C	1.8 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
	11 g/10 min @Load 2.16 kg, Temperature 230 °C	11 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	2.9 %	2.9 %	ISO 527-3
Film Elongation at Break, TD	3.0 %	3.0 %	ISO 527-3

Tensile Modulus Mechanical Properties	1.80 GPa Metric	261 ksi English	Film, TD; ISO 527-3 Comments
	2.20 GPa	319 ksi	Film, MD; ISO 527-3
Elmendorf Tear Strength MD	225 g	225 g	ISO 6383-2
Elmendorf Tear Strength TD	230 g	230 g	ISO 6383-2
Dart Drop Test	<= 36.0 g	<= 0.0794 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	57.0 MPa	8270 psi	ISO 527-3
Film Tensile Strength at Break, TD	50.0 MPa	7250 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	78.0 °C	172 °F	10°C/min; ISO 11357-1,-2,-3

Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	Film; ISO 14782
Gloss	>= 100 %	>= 100 %	60°, Film; ISO 2813

Descriptive Properties	Value	Comments
Type of film extrusion	Cast	Test specimen

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China