

Topas Advanced Polymers TOPAS® 6013F-04 Cyclic Olefin Copolymer (COC)

Category : Polymer , Thermoplastic , Cyclo Olefin Polymer

Material Notes:

TOPAS® 6013F-04 is a high temperature, 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 and blended cast applications, and in coextrusion and blends in both cast and blown processes, for a wide variety of film and sheet products requiring excellent optics in applications such as heat resistant blister, hot fill, and easy tear packaging. Key applications and attributes: Pharmaceutical blisters: Clarity, forming, barrier, purity, halogen-free Decorative film and sheet: Gloss, hardness, chemical resistance, forming Food packaging: Hot-fill, easy or linear tear, purity Healthcare and food: 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-6013F-04-Cyclic-Olefin-Copolymer-COC.php

Physical Properties	Metric	English	Comments
Oxygen Permeability	1120 cm ³ mil/(m ² day atm)	72.26 cm ³ mil/(100 in ² day atm)	
Water Vapor Permeability	6.20 g mil/ (m ² day)	0.400 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	0.000130 g/m ² /day @Temperature 38.0 °C	0.00000837 g/100 in ² /day @Temperature 100 °F	90% RH; ISO 15106-3
Oxygen Transmission	28.0 cc-mm/m ² -24hr-atm @Temperature 23.0 °C	71.1 cc-mil/100 in ² -24hr-atm @Temperature 73.4 °F	50% RH; ASTM D3985
Thickness	70.0 microns	2.76 mil	Film
Melt Flow	0.92 g/10 min @Load 2.16 kg, Temperature 230 °C	0.92 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	2.4 %	2.4 %	ISO 527-3
Film Elongation at Break, TD	2.2 %	2.2 %	ISO 527-3
Tensile Modulus	2.25 GPa	326 ksi	Film, TD; ISO 527-3

Mechanical Properties	Metric	English	Comments
Elmendorf Tear Strength MD	9.0 g	9.0 g	ISO 6383-2
Elmendorf Tear Strength TD	9.0 g	9.0 g	ISO 6383-2
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	45.0 MPa	6530 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	138 °C	280 °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

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