

## Topas Advanced Polymers TOPAS® 8007F-400 Cyclic Olefin Copolymer (COC)

Category : Polymer , Thermoplastic , Cyclo Olefin Polymer

### Material Notes:

TOPAS® 8007F-400 is a robust film extrusion grade designed for blending with polyethylene (PE). It is a moderate clarity amorphous resin with high stiffness, moisture barrier, chemical resistance, thermoformability and purity for food and general purpose applications. It is used in blends in both cast and blown processes, and in monolayer and multilayer products. Leading film applications include twist wrap, forming webs, protective packaging, shrink films and labels, and easy tear packaging. Industrial uses include thermoforming enhancement for PE and PP sheet products. Key applications and attributes: Forming films (header bags, etc.): Clarity, forming, barrier, purity, halogen-free Protective packaging: Stiffness for downgauging, improved forming Shrink films and labels: High shrink, low stress, gloss, toughness Twist films: Outstanding deadfold, clean cutting Decorative sheet: Stiffness, chemical resistance, forming, even draw 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-8007F-400-Cyclic-Olefin-Copolymer-COC.php](http://www.lookpolymers.com/polymer_Topas-Advanced-Polymers-TOPAS-8007F-400-Cyclic-Olefin-Copolymer-COC.php)

Physical Properties	Metric	English	Comments
Oxygen Permeability	970 cm <sup>3</sup> mil/(m <sup>2</sup> day atm)	62.6 cm <sup>3</sup> mil/(100 in <sup>2</sup> day atm)	
Water Vapor Permeability	3.70 g mil/ (m <sup>2</sup> day)	0.239 g mil/ (100 in <sup>2</sup> day)	
Density	1.02 g/cc	0.0368 lb/in <sup>3</sup>	ISO 1183
Water Absorption at Saturation	0.010 % @Temperature 23.0 °C	0.010 % @Temperature 73.4 °F	ISO 62
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
	10.1 g/10 min @Load 2.16 kg, Temperature 230 °C	10.1 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	3.4 %	3.4 %	ISO 527-3
Film Elongation at Break, TD	3.4 %	3.4 %	ISO 527-3
Tensile Modulus	1.70 GPa	247 ksi	Film, TD; ISO 527-3
	2.10 GPa	305 ksi	Film, MD; ISO 527-3

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	50.0 MPa	7250 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

Descriptive Properties	Value	Comments
Type of film extrusion	Cast	Test specimen

## Contact Songhan Plastic Technology Co.,Ltd.

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