

Topas Advanced Polymers TOPAS® 6013M-07 Cyclic Olefin Copolymer (COC)

Category : Polymer , Thermoplastic , Cyclo Olefin Polymer

Material Notes:

TOPAS® 6013M-07 is an injection molding grade with a wide processing window, especially suited for blow molding processes including IBM and ISBM. It is a glass-clear amorphous polymer with outstanding moisture barrier, chemical resistance, high purity and a non-reactive surface making it an excellent choice for healthcare and other high-tech products. Lower leachables and extractables of TOPAS COC preserve food and drug stability and quality. It is a non-polar substrate that does not promote adsorption, denaturation, aggregation, or precipitation like glass can. This grade has a high (130°C) heat distortion temperature to withstand 121°C steam sterilization protocols, as well as gamma and EtO procedures. Key applications and attributes: Drug delivery: Low leachables & extractables, low water transmission Prefilled syringes, vials, cartridges: Non-ionic, does not promote adsorption like glass Bottles: Minimally reactive, EtO/gamma/steam sterilizable Surgical instruments: Chemically resistant to alcohol, acetone, and acrylates IV containers and components: Transparent, withstands EtO/gamma/steam sterilization Labware: Temperature resistance, clarity and purity Optics: Clarity, low birefringence, low moisture sensitivity Electronics: Low dielectric constant, thermoplastic 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-6013M-07-Cyclic-Olefin-Copolymer-COC.php

Physical Properties	Metric	English	Comments
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
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 260 °C	12 g/10 min @Load 4.76 lb, Temperature 500 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Stress	63.0 MPa	9140 psi	Break, (5mm/min); ISO 527-2,-1A
Elongation at Yield	2.6 %	2.6 %	5mm/min; ISO 527-2/1A
Tensile Modulus	2.90 GPa	421 ksi	1mm/min; ISO 527-2/1A
Charpy Impact Unnotched	1.40 J/cm ² @Temperature 23.0 °C	6.66 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.170 J/cm ² @Temperature 23.0 °C	0.809 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
--------------------	--------	---------	----------

Deflection Temperature at 0.46 MPa Thermal Properties	130 °C Metric	266 °F English	ISO 75-1,-2 Comments
Glass Transition Temp, Tg	142 °C	288 °F	10°C/min; ISO 11357-1,-2,-3

Optical Properties	Metric	English	Comments
Refractive Index	1.53	1.53	ISO 489
Transmission, Visible	91 %	91 %	ISO 13468-2

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