

TECHNICAL DATA SHEET

[English Units]



TOPAS® 9506F-500

Cyclic Olefin Copolymer (COC)

Grade for film extrusion with improved processing behavior. Can be used in multi-layer films as a discrete layer or in blends with PE.

Property	Value	Unit	Test Standard
Physical Properties			
Density	1010	kg/m ³	ISO 1183
Melt volume rate (MVR) (230°C, 2.16kg)	6,0	cm ³ /10min	ISO 1133
Melt volume rate (MVR) (190°C, 2.16kg)	1,0	cm ³ /10min	ISO 1133
Melt flow rate (MFR) (230°C, 2.16kg)	5,4	g/10min	calculated
Melt flow rate (MFR) (190°C, 2.16kg)	0,9	g/10min	calculated
Water absorption (23°C-sat)	0,01	%	ISO 62
Thermal Properties			
Glass transition temperature (10°C/min)	147	°F	ISO 11357-1,-2,-3
Mechanical Properties (Film)			
Tensile modulus (machine direction)	260	kpsi	ISO 527-3
Tensile modulus (transverse direction)	250	kpsi	ISO 527-3
Tensile strength @ break (machine direction)	7500	psi	ISO 527-3
Tensile strength @ break (transverse direction)	7400	psi	ISO 527-3
Elongation at break (machine direction)	3,1	%	ISO 527-3
Elongation at break (transverse direction)	3,1	%	ISO 527-3
Barrier Properties (Film)			
Water vapor permeability @ 38°C, 90% RH	0,23	g×mil/100in ² ×day	ISO 15106-3
Test Specimen Production (Film)			
Type of extrusion	cast		
Thickness of specimen	3,94	mil	

Notice to Users: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colorants or other additives may cause significant variations in data values. - Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. - To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. - Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones which exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique, or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. - We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and to entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed for additional technical information. Call Customer Services for the appropriate Safety Data Sheets before attempting to process our products. - The products mentioned herein are not designed or promoted for use in medical or dental implants.

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