## TECHNICAL DATA SHEET



## TOPAS® 8007F-04

Cyclic Olefin Copolymer (COC)

Classic extrusion grade for pharmaceutical, medical and food packaging applications. Mainly used in coextruded cast film applications, e.g. blister film. Provides excellent clarity, high stiffness/modulus, exceptional water vapor barrier properties and good thermoformability.

Property	Value	Unit	Test Standard
Physical Properties			
Density	1010	kg/m³	ISO 1183
Melt volume rate (MVR) (230°C, 2.16kg)	12	cm <sup>3</sup> /10min	ISO 1133
Melt volume rate (MVR) (190°C, 2.16kg)	2	cm <sup>3</sup> /10min	ISO 1133
Thermal Properties			
Glass transition temperature (10°C/min)	78	°C	ISO 11357-1,-2,-3
Mechanical Properties (Film)			
Tensile modulus (machine direction)	2200	Мра	ISO 527-3
Tensile modulus (transverse direction)	1800	Мра	ISO 527-3
Tensile strength @ break (machine direction)	57	Мра	ISO 527-3
Tensile strength @ break (transverse direction)	50	Мра	ISO 527-3
Elongation at break (machine direction)	2,9	%	ISO 527-3
Elongation at break (transverse direction)	3,0	%	ISO 527-3
Elmendorf tear strength (machine direction)	225	g	ISO 6383-2
Elmendorf tear strength (transverse direction)	230	g	ISO 6383-2
Dart Drop Impact Strength, F50	<36	g	ISO 7765-1
Optical Properties (Film)			
Gloss, 60°	>100	%	ISO 2813
Haze	<1	%	ISO 14782
Barrier Properties (Film)			
Water vapor permeability @ 38°C, 90% RH	0,8	g×100µm/m2×day	ISO 15106-3
Oxygen permeability @ 23°C, 50% RH	200	cm³ ×100µm / m2×day×bar	ASTM D3985
Test Specimen Production (Film)			
Type of extrusion	cast		
Thickness of specimen	0,07	mm	

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 should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility whatsoever for the accuracy and completeness of such information contained 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 additiona

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