

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	cm ³ /10min	ISO 1133
Melt volume rate (MVR) (190°C, 2.16kg)	1	cm ³ /10min	ISO 1133
Water absorption (23°C-sat)	0,01	%	ISO 62
Thermal Properties			
Glass transition temperature (20°C/min)	64	°C	ISO 11357-1,-2
Mechanical Properties (Film)			
Tensile modulus (machine direction)	1800	Mpa	ISO 527-3
Tensile modulus (transverse direction)	1700	Mpa	ISO 527-3
Tensile strength @ break (machine direction)	52	Mpa	ISO 527-3
Tensile strength @ break (transverse direction)	51	Mpa	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	0,9	g×100µm / m ² ×day	ISO 15106-3
Test Specimen Production (Film)			
Type of extrusion	cast		
Thickness of specimen	0,10	mm	

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