

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	

