

**Topas® 8007F-400**

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

Cyclic Olefin Copolymer (COC)

Property	Value	Unit	Test Standard
<b>Physical Properties</b>			
Density	1020	kg/m <sup>3</sup>	ISO 1183
Melt volume rate (MVR)	11.0	cm <sup>3</sup> /10min	ISO 1133
MVR test temperature	230	°C	ISO 1133
MVR test load	2.16	kg	ISO 1133
Melt volume rate (MVR) - 2nd value	2.0	cm <sup>3</sup> /10min	ISO 1133
MVR test temperature - 2nd value	190	°C	ISO 1133
MVR test load - 2nd value	2.16	kg	ISO 1133
Water absorption (23°C-sat)	0.01	%	ISO 62
<b>Thermal Properties</b>			
Glass transition temperature (10°C/min)	78	°C	ISO 11357-1,-2,-3
<b>Mechanical Properties (Film)</b>			
Tensile modulus (machine direction)	2100	MPa	ISO 527-3
Tensile modulus (transverse direction)	1700	MPa	ISO 527-3
Tensile strength @ break (machine direction)	55	MPa	ISO 527-3
Tensile strength @ break (transverse direction)	50	MPa	ISO 527-3
Elongation at break (machine direction)	3.4	%	ISO 527-3
Elongation at break (transverse direction)	3.4	%	ISO 527-3
<b>Barrier Properties (Film)</b>			
Water vapor permeability @ 38°C, 90% RH	0.85	q:100µm/(m <sup>2</sup> ·day)	ISO 15106-3
<b>Test Specimen Production (Film)</b>			
Type of extrusion	cast		
Thickness of specimen	0.07	mm	

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