

TOPAS® 9506F-04

Cyclic Olefin Copolymer
Polyplastics Co., Ltd.

Message:
Film grade

General Information			
Features	Copolymer		
Uses	Film		
Part Marking Code (ISO 11469)	>COC<		
Physical	Nominal Value	Unit	Test Method
Density	1.01	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR)			ISO 1133
190°C/2.16 kg	1.00	cm ³ /10min	
230°C/2.16 kg	6.00	cm ³ /10min	
Water Absorption (Saturation, 23°C)	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-2/1A/1
Films	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-3
MD	1700	MPa	
TD	2000	MPa	
Tensile Stress			ISO 527-3
MD : Break	55.0	MPa	
TD : Break	55.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break	2.9	%	
TD : Break	3.6	%	
Dart Drop Impact ¹	< 36	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD	2.3	N	
TD	2.4	N	
Oxygen Permeability (23°C, 50% RH)	17	cm ³ ·mm/m ² /atm/24 hr	ASTM D3985
Water Vapor Transmission Rate (38°C, 90% RH)	0.080	g·mm/m ² /atm/24 hr	ISO 15106-3
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ²	65.0	°C	ISO 11357-2
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	> 100		ISO 2813
Haze	< 1.0	%	ISO 14782

NOTE

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| 1. | F50 |
| 2. | 10°C/min |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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