

TOPAS® 6013F-04

Cyclic Olefin Copolymer
Topas Advanced Polymers, Inc.

Message:
Film grade

General Information			
Features	Copolymer		
Uses	Films		
Part Marking Code (ISO 11469)	>COC		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	1.00	cm ³ /10min	ISO 1133
Water Absorption (Saturation, 23°C)	0.010	%	ISO 62
Films	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-3
MD	2400	MPa	ISO 527-3
TD	2250	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Fracture	55.0	MPa	ISO 527-3
TD: Fracture	45.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Fracture	2.4	%	ISO 527-3
TD: Fracture	2.2	%	ISO 527-3
Dart Drop Impact ¹	< 36	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD	0.088	N	ISO 6383-2
TD	0.088	N	ISO 6383-2
Oxygen Permeability (23°C, 50% RH)	28	cm ³ ·mm/m ² /atm/24 hr	ASTM D3985
Water Vapor Transmission Rate (38°C, 90% RH)	0.13	g·mm/m ² /atm/24 hr	ISO 15106-3
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ²	138	°C	ISO 11357-2
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	> 100		ISO 2813
Haze	< 1.0	%	ISO 14782
NOTE			
1.	F50		
2.	10°C/min		

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