

TOPAS® 5013L-10

Cyclic Olefin Copolymer

Topas Advanced Polymers, Inc.

Message:

Optical grade

General Information			
Features	Copolymer		
Uses	Optical applications		
UL File Number	E177491		
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) (260°C/2.16 kg)	48.0	cm ³ /10min	ISO 1133
Water Absorption (Saturation, 23°C)	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	46.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.7	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.6	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	13	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	127	°C	ISO 75-2/B
Glass Transition Temperature ¹	134	°C	ISO 11357-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	ohms · cm	IEC 60093
Relative Permittivity			IEC 60250
1 kHz	2.35		IEC 60250
10 kHz	2.35		IEC 60250
Comparative Tracking Index	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.530		ISO 489
Transmittance (2000 µm)	91.0	%	ISO 13468-1
NOTE			
1.	10°C/min		

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