

TOPAS® 6013L-17

Cyclic Olefin Copolymer

Polyplastics Co., Ltd.

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)	14.0	cm ³ /10min	ISO 1133
Water Absorption (Saturation, 23°C)	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2900	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	63.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	15	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	130	°C	ISO 75-2/B
Glass Transition Temperature ¹	140	°C	ISO 11357-2
Flammability	Nominal Value	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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