

APEL™ APL6509T

Cyclic Olefin Copolymer
Mitsui Chemicals America, Inc.

Message:

APEL™APL6509T is a cyclic olefin copolymer (COC) material. This product is available in North America.
Typical application areas include:
[sheet](#)
[Movie](#)

General Information			
Uses	Films		
	Sheet		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	60.0	MPa	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	2500	MPa	ASTM D790
Flexural Strength	100	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Water Vapor Transmission Rate	0.090	g · mm/m ² /atm/24 hr	ASTM F1249
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	35	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	70.0	°C	ASTM D648
Glass Transition Temperature	80.0	°C	DSC
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.540		ASTM D542
Transmittance	91.0	%	ASTM D1003
Haze	2.0	%	ASTM D1003
Additional Information			

Unnotched Izod Impact, ASTM D256: 20 kJ/m²TMA: 90°C

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