

APEL™ APL5514ML

Cyclic Olefin Copolymer
Mitsui Chemicals America, Inc.

Message:

APEL™APL5514ML is a cyclic olefin copolymer (COC) material. This product is available in North America.
APEL™The typical application fields of APL5514ML are: optics/lenses

General Information			
Uses	Optical applications		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	36	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)	3.0	%	ASTM D638
Flexural Modulus	3200	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	25	J/m	ASTM D256
Unnotched Izod Impact	10.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	125	°C	ASTM D648
Glass Transition Temperature	135	°C	DSC
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.540		ASTM D542
Transmittance	90.0	%	ASTM D1003
Haze	0.50	%	ASTM D1003
Additional Information			
TMA: 145°C			

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