

APEL™ APL5014DP

Cyclic Olefin Copolymer
Mitsui Chemicals America, Inc.

Message:

APEL™APL5014DP is a cyclic olefin copolymer (COC) material. This product is available in North America.
APEL™The typical application fields of APL5014DP are: optics/lenses

General Information			
UL YellowCard	E52579-242884		
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	2.0	%	ASTM D1003
Additional Information			

TMA: 147°C

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

