

Mitsui APEL,ç APL5014DP Cyclo Olefin Copolymer (COC)

Category : Polymer , Thermoplastic , Cyclo Olefin Polymer

Material Notes:

This material possesses many characteristics inherent in polyolefins such as excellent electrical insulating properties and outstanding moisture resistance. In addition, it features good melt processability/flowability, good clarity and transparency, high glass transition temperature (Tg), exceptional moisture impermeability, impressive gas barrier qualities and excellent chemical and heat resistance. This material is used in Optical Parts applications. Information provided by Mitsui Chemicals America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mitsui-APEL-APL5014DP-Cyclo-Olefin-Copolymer-COC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Moisture Vapor Transmission	0.0900 cc-mm/m ^Å ²-24hr-atm	0.229 cc-mil/100 in ^Å ²-24hr-atm	1 atm; ASTM D1249
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	MCI Method
Melt Index of Compound	36 g/10 min @Load 2.16 kg, Temperature 260 Å°C	36 g/10 min @Load 4.76 lb, Temperature 500 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	100 MPa	14500 psi	ASTM D790
Flexural Modulus	3.20 GPa	464 ksi	ASTM D790
Izod Impact, Notched	0.250 J/cm	0.468 ft-lb/in	ASTM D256
Izod Impact, Unnotched (ISO)	10.0 kJ/m ^Å ²	4.76 ft-lb/in ^Å ²	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	147 Å°C	297 Å°F	TMA; MCI Method
Deflection Temperature at 1.8 MPa (264 psi)	125 Å°C	257 Å°F	ASTM D648
Glass Transition Temp, Tg	135 Å°C	275 Å°F	MCI Method

Optical Properties	Metric	English	Comments
Refractive Index	1.54	1.54	ASTM D542

Optical Properties Metric	Metric 20%	English 20%	Comments ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

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