

Zeon ZeonorFilm®

Cyclo Olefin Polymer

Zeon Corporation

Message:

HIGH TRANSPARENCY

ZeonorFilm exhibits high transparency (92% light transmittance) and excellent turbidity (haze value <0.1%), for enhanced brightness.

INERT SURFACE

ZeonorFilm is manufactured from Zeon's cyclo olefin polymer (COP). COP is known for its excellent optical properties and also for being a high-purity resin. ZeonorFilm has an inert surface which makes it ideal for sensitive bio-diagnostic devices.

General Information			
Features	High Clarity		
	High Purity		
	Opticals		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm ³	JIS K6760
Molding Shrinkage			ISO 294-4
Across Flow : 120°C, 0.100 mm	0.060	%	
Flow : 120°C, 0.100 mm	-0.020	%	
Water Absorption (Equilibrium)	< 0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Pencil Hardness	B		JIS K5401
Abbe Number (25°C)	56.0		ASTM D542
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Across Flow : 0.100 mm	59.0	MPa	
Flow : 0.100 mm	60.0	MPa	
Tensile Elongation			ASTM D638
Across Flow : Break, 0.100 mm	30	%	
Flow : Break, 0.100 mm	40	%	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	136 to 163	°C	DSC
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms · cm	ASTM D257
Dielectric Strength (0.0100 mm)	360	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.30		ASTM D150
Dissipation Factor (1 MHz)	5.0E-3		ASTM D150
Arc Resistance (3.00 mm)	124	sec	ASTM D495

Optical	Nominal Value	Unit	Test Method
Refractive Index ¹	1.530		ASTM D542
Transmittance (100 μm)	92.0	%	JIS K7105
Haze (100 μm)	< 0.10	%	JIS K7105
NOTE			
1.	D line, 25°C		

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