

# ZEONEX® 5000

Cyclo Olefin Polymer

Zeon Corporation

Message:

Medical grade for drug packaging and delivery device. Low Tg, high flow grade

Features

- Medical grade
- High moisture barrier
- High purity
- Very low extractable
- High clarity
- Break resistance

Uses

- Medical device
- Syringe
- Drug storage
- Diagnostic consumable

General Information			
Features	High purity		
	Low extract		
	Moisture proof		
	High liquidity		
	Definition, high		
Uses	Drug packaging		
	Medical/nursing supplies		
	Medical devices		
Agency Ratings	EC 1907/2006 (REACH)		
	ISO 10993		
	USP Class VI		
RoHS Compliance	RoHS compliance		
Appearance	Clear/transparent		
Processing Method	Blow molding		
	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	JIS K6719
Water Absorption (Equilibrium)	< 0.010	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ISO 527-2
Tensile Stress	45.0	MPa	ISO 527-2
Tensile Strain (Break)	120	%	ISO 527-2
Flexural Modulus	1900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	69.0	°C	JIS K7121
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM E831
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	92.0	%	ASTM D1003

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