

ZEONEX® 790R

Cyclo Olefin Polymer

Zeon Corporation

Message:

Medical grade, high Tg for drug delivery device

Features

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

Uses

- Medical device
- Syringe
- Drug storage

General Information	
Features	High purity
	Low extract
	Moisture proof
	Definition, high
Uses	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 ³	ASTM D792
Melt Mass-Flow Rate (MFR) (280°C/2.16 kg)	6.0	g/10 min	JIS K6719
Water Absorption (Equilibrium)	< 0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress	73.0	MPa	ISO 527-2

Tensile Strain (Break)	10	%	ISO 527-2
Flexural Modulus	2600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	25	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	163	°C	JIS K7121
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM E831
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	92.0	%	ASTM D1003

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