

ZEONEX® 690R

Cyclo Olefin Polymer

Zeon Corporation

Message:

Medical gade for steam sterilizable drug packaging and 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		
	Disinfect with steam		
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/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (280°C/2.16 kg)	17	g/10 min	JIS K6719
Water Absorption (Equilibrium)	< 0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	2400	MPa	ISO 527-2
Tensile Stress	61.0	MPa	ISO 527-2
Tensile Strain (Break)	20	%	ISO 527-2
Flexural Modulus	2200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	136	°C	JIS K7121
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM E831
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	92.0	%	ASTM D1003

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