

ZEONOR® 1420R

Cyclo Olefin Polymer
Zeon Corporation

Message:

- High transparency, low fluorescence, excellent moldability grade for light guide and diagnostic consumable
- Features
- High transparency
 - Low fluorescence
 - Low moisture absorption
 - Very low extractable
 - High purity
- Uses
- Light guide
 - Diagnostic consumable
 - Microfluidic
 - Mirror

General Information			
Features	High purity		
	Low extract		
	Low hygroscopicity		
	Good formability		
	Definition, high		
Agency Ratings	EC 1907/2006 (REACH)		
	ISO 10993		
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)	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
Electrical	Nominal Value		Test Method
Dielectric Constant (1.00 GHz)	2.30		ASTM D150
Dissipation Factor (1.00 GHz)	< 1.0E-3		ASTM D150
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	92.0	%	ASTM D1003

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