

ZEONOR® 1410R

Cyclo Olefin Polymer

Zeon Corporation

Message:

High viscosity, high transparency grade

Features

High transparency

Break resistance

Low fluorescence

Very low extractable

Low moisture absorption

Uses

Diagnostic consumable

Light guide

General Information			
Features	Low extract		
	Low hygroscopicity		
	Definition, high		
	Viscosity, High		
Agency Ratings	EC 1907/2006 (REACH)		
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)	6.0	g/10 min	JIS K6719
Water Absorption (Equilibrium)	< 0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Stress	64.0	MPa	ISO 527-2
Tensile Strain (Break)	51	%	ISO 527-2
Flexural Modulus	2200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	50	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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

