ZEONOR® 1020R

Cyclo Olefin Polymer

Zeon Corporation

Message:

ZEONOR® is a new line of thermoplastic polyolefin resin with an excellent combination of optical and electronic properties.
These unique Cyclo Olefin Polymer (COP) was developed by ZEON CORPORATION using proprietary technology for a wide range of electronic, automotive and packaging applications. ZEONOR can easily be processed for any of these applications by injection molding, blow molding or extrusion.

General Information	
Features	Good Electrical Properties
	High Clarity
	High Flow
	High Purity
	Low Moisture Absorption
	Low Specific Gravity
	Moisture Barrier
	Opticals
Uses	Automotive Applications
	Electrical/Electronic Applications
	Packaging
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)	20	g/10 min	ISO 1133
Water Absorption (Equilibrium)	< 0.010	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	20		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress	53.0	MPa	ISO 527-2
Tensile Strain (Break)	90	%	ISO 527-2
Flexural Modulus	2100	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	60	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	101	°C	ASTM D648
Glass Transition Temperature	102	°C	JIS K7121
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM E831
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Dielectric Strength	70	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.30		IEC 60250
Dissipation Factor (1 MHz)	2.0E-4		IEC 60250
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance (3000 µm)	92.0	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	
DuPont Impact Strength	36.0	J	

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