

ZEONOR® 1060R

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/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	14	g/10 min	
280°C/2.16 kg	60	g/10 min	
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	2100	MPa	ISO 527-2
Tensile Stress	53.0	MPa	ISO 527-2
Tensile Strain (Break)	60	%	ISO 527-2
Flexural Modulus	2100	MPa	ISO 178
Flexural Stress	76.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact	18	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	99.0	°C	ASTM D648
Glass Transition Temperature	100	°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	26.0	J	

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