

Zeon Chemicals Zeonor® 750R Cyclo Olefin Polymer

Category : Polymer , Thermoplastic , Cyclo Olefin Polymer

Material Notes:

Zeonor® is a 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 be processed for any of these applications via injection molding, blow molding or extrusion.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zeon-Chemicals-Zeonor-750R-Cyclo-Olefin-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ASTM D792
Water Absorption	<= 0.010 %	<= 0.010 %	ASTM D570
Moisture Vapor Transmission	0.110 cc-mm/m ² -24hr-atm	0.279 cc-mil/100 in ² -24hr-atm	40°C, 90%, 50-300μm; JIS K7129
Melt Flow	27 g/10 min @Load 2.16 kg, Temperature 280 °C	27 g/10 min @Load 4.76 lb, Temperature 536 °F	JIS K 6719

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	ISO 527
Elongation at Break	140 %	140 %	ISO 527
Tensile Modulus	2.00 GPa	290 ksi	ISO 527
Flexural Strength	55.0 MPa	7980 psi	ISO 178
Flexural Modulus	1.80 GPa	261 ksi	ISO 178
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C @Temperature 20.0 °C	38.9 µin/in-°F @Temperature 68.0 °F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	ASTM D648
Glass Transition Temp, Tg	70.0 °C	158 °F	JIS K7121
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Transmission, Visible	92 % @Thickness 3.00 mm	92 % @Thickness 0.118 in	ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC250
Dielectric Constant	2.3 @Frequency 1e+6 Hz	2.3 @Frequency 1e+6 Hz	IEC250
Dielectric Strength	70.0 kV/mm	1780 kV/in	ASTM D149
Dissipation Factor	0.00020 @Frequency 1e+6 Hz	0.00020 @Frequency 1e+6 Hz	IEC250

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