

Generic COC

Cyclic Olefin Copolymer

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.01 - 1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	11 - 44	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	1.50 - 48.0	cm ³ /10min	ISO 1133
Molding Shrinkage (23°C)	0.20 - 0.60	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2600 - 3200	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	46.0 - 63.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	1.7 - 4.5	%	ISO 527-2
Films	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	50.0 - 2400	MPa	ISO 527-3
Tensile Stress (Break, 23°C)	49.1 - 55.3	MPa	ISO 527-3
Tensile Elongation (Break, 23°C)	2.2 - 22	%	ISO 527-3
Elmendorf Tear Strength	0.088 - 2.4	N	ISO 6383-2
Water Vapor Transmission Rate (23°C)	0.025 - 0.10	g · mm/m ² /atm/24 hr	ASTM F1249
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.6 - 3.3	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	13 - 20	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	75.0 - 170	°C	ISO 75-2/B
Glass Transition Temperature	62.0 - 138	°C	ISO 11357-2
Vicat Softening Temperature	78.3 - 178	°C	ISO 306
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+14 - 1.0E+16	ohms · cm	IEC 60093
Relative Permittivity (23°C)	2.35		IEC 60250
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.530		ISO 489
Transmittance	90.0 - 91.0	%	ASTM D1003
Haze	0.90 - 3.1	%	ASTM D1003
Injection	Nominal Value	Unit	

Drying Temperature	50.0 - 102	°C
Rear Temperature	205 - 246	°C
Middle Temperature	220 - 261	°C
Front Temperature	235 - 276	°C
Nozzle Temperature	235 - 271	°C
Processing (Melt) Temp	220 - 271	°C
Mold Temperature	55.0 - 110	°C
Injection Pressure	80.0 - 80.2	MPa
Holding Pressure	45.0	MPa
Injection instructions		

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