

WONDERLITE® PC-175

Polycarbonate
CHI MEI CORPORATION

Message:

WONDERLITE® PC-175 is a Polycarbonate (PC) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Electrical/Electronic Applications. Primary characteristic: rohs compliant.

General Information			
UL YellowCard	E56070-100915709		
Uses	Optical Data Storage		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	62	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	65.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.50 to 0.70	%	
Across Flow	0.50 to 0.70	%	
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	77		ASTM D785
Ball Indentation Hardness (H 358/30)	106	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 3.18 mm ¹	63.7	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/50
Break	50.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield, 3.18 mm ²	6.0	%	ASTM D638
Break, 3.18 mm ³	70	%	ASTM D638
Break	65	%	ISO 527-2/50
Flexural Modulus			
6.35 mm ⁴	2350	MPa	ASTM D790
-- ⁵	2400	MPa	ISO 178
Flexural Strength			
6.35 mm ⁶	90.2	MPa	ASTM D790
-- ⁷	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m ²	ISO 179

Notched Izod Impact Strength	8.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	124	°C	
1.8 MPa, Annealed	140	°C	
Vicat Softening Temperature			
--	145	°C	ISO 306/A50
--	140	°C	ISO 306/B50
CLTE - Flow (44 to 100°C)	6.0E-5 to 8.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.20	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+16	ohms·cm	ASTM D257
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.585		ASTM D542
Transmittance (76200 μm)	89.0	%	ASTM D1003
Haze (81300 μm)	< 0.80	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Rear Temperature	290 to 320	°C	
Middle Temperature	310 to 385	°C	
Front Temperature	270 to 350	°C	
Mold Temperature	45.0 to 128	°C	
NOTE			
1.	6.0 mm/min		
2.	6.0 mm/min		
3.	6.0 mm/min		
4.	2.8 mm/min		
5.	2.0 mm/min		
6.	2.8 mm/min		
7.	2.0 mm/min		

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