

WONDERLITE® PC-110

Polycarbonate

<https://yifuhuiplastic.com/>

CHI MEI CORPORATION

Technical Data

Product Description

WONDERLITE® PC-110 is a Polycarbonate (PC) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

- Flame Rated
- RoHS Compliant
- Medium Viscosity

General

Material Status	•Commercial: Active		
	•Processing (English)		
Literature 1	•Technical Datasheet - ASTM (Chinese)		
	•Technical Datasheet - ASTM (English)		
	•Technical Datasheet - ISO (English)		
UL Yellow Card 2	•E56070-100239152		
Search for UL Yellow Card	•CHI MEI CORPORATION		
	•WONDERLITE®		
Availability	•Africa & Middle East	•Europe	•North America
	•Asia Pacific	•Latin America	
Features	•Medium Viscosity		
RoHS Compliance	•RoHS Compliant		
Resin ID (ISO 1043)	•>PC<		

Physical

	Nominal ValueUnit	Test Method
Density / Specific Gravity		
-- 4	1.20g/cm³	ASTM D792
23°C	1.20g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	10cm³/10min	ISO 1133
Molding Shrinkage	0.50 to 0.70%	ISO 294-4

Mechanical

	Nominal ValueUnit	Test Method
Tensile Strength		
Yield 5	61.6MPa	ASTM D638
Yield	65.0MPa	ISO 527-2/50
Break	75.0MPa	ISO 527-2/50
Tensile Elongation		
Break 5	110%	ASTM D638
Break	120%	ISO 527-2/50
Flexural Modulus		
-- 6	2340MPa	ASTM D790
-- 7	2400MPa	ISO 178
Flexural Strength		
-- 6	89.8MPa	ASTM D790
-- 7	90.0MPa	ISO 178

Impact

	Nominal ValueUnit	Test Method
Charpy Notched Impact Strength (23°C)	75kJ/m²	ISO 179
Notched Izod Impact		
23°C, 3.20 mm	850J/m	ASTM D256
23°C	75kJ/m²	ISO 180/1A

Hardness

	Nominal ValueUnit	Test Method
Rockwell Hardness (M-Scale)	77	ASTM D785

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Thermal	Nominal ValueUnit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Annealed 8	146 °C	ASTM D648
1.8 MPa, Unannealed	128 °C	ISO 75-2/A
1.8 MPa, Annealed	143 °C	ISO 75-2/A
Vicat Softening Temperature		
--	150 °C	ASTM D1525 ⁹
--	145 °C	ISO 306/A50 ⁹
		ISO 306/B50
CLTE - Flow	6.0E-5 to 8.0E-5cm/cm/°C	ISO 11359-2
Flammability	Nominal ValueUnit	Test Method
Flame Rating		UL 94
1.5 mm	V-2	
2.5 mm	V-2	

Injection	Nominal ValueUnit
Drying Temperature	120 °C
Drying Time	4.0 hr
Rear Temperature	230 to 300°C
Middle Temperature	250 to 320°C
Front Temperature	250 to 310°C
Mold Temperature	70 to 120°C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 23°C

⁵ 6.0 mm/min

⁶ 1.3 mm/min

⁷ 2.0 mm/min

⁸ 132°C x 8 hr

⁹ Rate A (50°C/h), Loading 1 (10 N)