

WONDERLITE® PC-110

Polycarbonate
CHI MEI CORPORATION

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description			
Medium viscosity			
General			
Material Status	• Commercial: Active		
Literature ¹	• Processing (English) • 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 • Asia Pacific	• Europe • Latin America	• North America
Features	• Medium Viscosity		
RoHS Compliance	• RoHS Compliant		
Resin ID (ISO 1043)	• >PC<		
Physical	Nominal Value Unit		Test Method
Density / Specific Gravity			
-- ⁴	1.20 g/cm ³		ASTM D792
23°C	1.20 g/cm ³		ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10 g/10 min		ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	10 cm ³ /10min		ISO 1133
Molding Shrinkage	0.50 to 0.70 %		ISO 294-4
Mechanical	Nominal Value Unit		Test Method
Tensile Strength			
Yield ⁵	61.6 MPa		ASTM D638
Yield	65.0 MPa		ISO 527-2/50
Break	75.0 MPa		ISO 527-2/50
Tensile Elongation			
Break ⁵	110 %		ASTM D638
Break	120 %		ISO 527-2/50
Flexural Modulus			
-- ⁶	2340 MPa		ASTM D790
-- ⁷	2400 MPa		ISO 178
Flexural Strength			
-- ⁶	89.8 MPa		ASTM D790
-- ⁷	90.0 MPa		ISO 178
Impact	Nominal Value Unit		Test Method
Charpy Notched Impact Strength (23°C)	75 kJ/m ²		ISO 179
Notched Izod Impact			
23°C, 3.20 mm	850 J/m		ASTM D256
23°C	75 kJ/m ²		ISO 180/1A
Hardness	Nominal Value Unit		Test Method
Rockwell Hardness (M-Scale)	77		ASTM D785



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Thermal	Nominal Value Unit	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 ISO 306/A50 ⁹
--	145 °C	ISO 306/B50
CLTE - Flow	6.0E-5 to 8.0E-5 cm/cm/°C	ISO 11359-2
Flammability	Nominal Value Unit	Test Method
Flame Rating (2.5 mm)	V-2	UL 94
Injection	Nominal Value Unit	
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)



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Where to Buy

Supplier

CHI MEI CORPORATION

Tainan County, Tainan County Taiwan

Telephone: +886-6-266-3000

Web: <http://www.chimeicorp.com/>

Distributor

AMP FRANCE

Telephone: +33-3-8920-1390

Web: <http://www.amp.fr/>

Availability: France

AMP TUNISIA

Telephone: +216-52-27-21-73

Web: <http://www.amp.fr/>

Availability: Tunisia

Calsak Polymers

Telephone: 800-743-2595

Web: <http://www.calsak.com/>

Availability: North America

Distrupol Ltd

Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.

Telephone: 08452003040

Web: <http://www.distrupol.com/>

Availability: Belgium, Denmark, Finland, Ireland, Luxembourg, Netherlands, Norway, Sweden, United Kingdom

Entec Polymers

Telephone: 833-319-0299

Web: https://www.entecpolymers.com/?utm_source=ul&utm_medium=paid%20association&utm_campaign=entec%20%7C%20entec%20%21&utm_term=ul%20%7C%20where%20to%20buy

Availability: North America

Entec Polymers Latin America

Contact Entec Polymers for availability of individual products by country.

Web: <https://www.entecpolymers.com/>

Availability: Latin America

M. Holland Canada Company

Telephone: 905-665-1168

Web: <http://www.mholland.com/>

Availability: Canada

M. Holland Company

Telephone: 855-497-1403

Web: <http://www.mholland.com/>

Availability: Mexico, United States

