

WONDERLOY® PC-540A

Polycarbonate + ABS
CHI MEI CORPORATION

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

High heat stability

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
UL Yellow Card ²	• E56070-100269744 • E194560-104393782		
Search for UL Yellow Card	• CHI MEI CORPORATION • WONDERLOY®		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant		
Features	• Flame Retardant	• Good Thermal Stability	
RoHS Compliance	• RoHS Compliant		
Resin ID (ISO 1043)	• >ABS+PC-FR(40)<		

Physical	Nominal Value Unit	Test Method
Density (23°C)	1.18 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	20 cm ³ /10min	ISO 1133
Spiral Flow ^{4, 5}	40.0 cm	Internal Method
Molding Shrinkage	0.40 to 0.60 %	ISO 294-4

Mechanical	Nominal Value Unit	Test Method
Tensile Stress		ISO 527-2/50
Yield	60.0 MPa	
Break	55.0 MPa	
Tensile Strain (Break)	120 %	ISO 527-2/50
Flexural Modulus ⁶	2400 MPa	ISO 178
Flexural Stress ⁶	90.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	45 kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	45 kJ/m ²	ISO 180/1A

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ISO 75-2/A
1.8 MPa, Unannealed	83.0 °C	
Vicat Softening Temperature		
--	101 °C	ISO 306/B50
--	108 °C	ISO 306/A50
CLTE - Flow	8.0E-5 cm/cm/°C	ISO 11359-2

Electrical	Nominal Value Unit	Test Method
Surface Resistivity	2.9E+15 ohms	IEC 60093
Volume Resistivity	3.9E+17 ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	3.10	IEC 60250



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Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.5 mm	V-0	
2.0 mm	5VB	
3.0 mm	5VA	

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 Melt Temperature: 260°C

⁵ 2 mm, V: 50%, P: 50%

⁶ 2.0 mm/min

