

WONDERLITE® PC-122

CHI MEI CORPORATION - Polycarbonate

Monday, November 4, 2019

General Information				
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Material Status	Commercial: Active			
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America	
Features	High Flow			
RoHS Compliance	 RoHS Compliant 			
Resin ID (ISO 1043)	• >PC<			

ASTM & I	SO Properties 1		
Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.20		ASTM D792
Density (73°F)	1.20	g/cm³	ISO 1183
Melt Mass-Flow Rate (300°C/1.2 kg)	22	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	22	cm ³ /10min	ISO 1133
Molding Shrinkage	0.50 to 0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield)	8940	psi	ASTM D638
Tensile Stress (Yield)	9140	psi	ISO 527-2/50
Tensile Stress (Break)	10200	psi	ISO 527-2/50
Tensile Elongation ³ (Break)	110	%	ASTM D638
Tensile Strain (Break)	120	%	ISO 527-2/50
Flexural Modulus ⁴	340000	psi	ASTM D790
Flexural Modulus	348000	psi	ISO 178
Flexural Strength ⁴	13000	psi	ASTM D790
Flexural Stress ⁵	13100	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	29	ft·lb/in²	ISO 179
Notched Izod Impact (73°F, 0.126 in)	15	ft·lb/in	ASTM D256
Notched Izod Impact Strength (73°F)	29	ft·lb/in²	ISO 180/4A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	77		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁶ (66 psi, Annealed)	291	°F	ASTM D648
Heat Deflection Temperature (264 psi, Unannealed)	262	°F	ISO 75-2/A
Heat Deflection Temperature (264 psi, Annealed)	289	°F	ISO 75-2/A
Vicat Softening Temperature	302	°F	ASTM D1525 7
Vicat Softening Temperature			
	302	°F	ISO 306/A50
	293	°F	ISO 306/B50
CLTE - Flow	3.3E-5 to 4.4E-5	in/in/°F	ISO 11359-2



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Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.015 in	V-2	
0.13 in	V-2	

Processing Information		
njection	Nominal Value	Unit
Drying Temperature	248	°F
Drying Time	4.0	hr
Rear Temperature	428 to 572	°F
Middle Temperature	464 to 590	°F
Front Temperature	464 to 572	°F
Mold Temperature	158 to 248	°F

Notes

¹ Typical properties: these are	e not to be construed as specifications.
² 23°C	
³ 0.24 in/min	
⁴ 0.051 in/min	
⁵ 0.079 in/min	
⁶ 132°C x 8 hr	

⁷ Rate A (50°C/h), Loading 1 (10 N)

