



WONDERLITE® PC-115P

CHI MEI CORPORATION - Polycarbonate

Monday, November 4, 2019

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Biocompatible	• Low Viscosity	• Radiation (Gamma) Resistant
Uses	• Medical/Healthcare Applications		
Agency Ratings	• ISO 10993 Part 10 • ISO 10993 Part 11	• ISO 10993 Part 4 • ISO 10993 Part 5	
RoHS Compliance	• RoHS Compliant		
Resin ID (ISO 1043)	• >PC<		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	15	cm ³ /10min	ISO 1133
Molding Shrinkage	0.50 to 0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	9280	psi	ISO 527-2/50
Tensile Stress (Break)	10200	psi	ISO 527-2/50
Tensile Strain (Break)	120	%	ISO 527-2/50
Flexural Modulus ²	348000	psi	ISO 178
Flexural Stress ²	13100	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	33	ft-lb/in ²	ISO 179
Notched Izod Impact Strength (73°F)	33	ft-lb/in ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
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	ISO 306/A50
--	293	°F	ISO 306/B50
CLTE - Flow	3.3E-5 to 4.4E-5	in/in/°F	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.10 in)	V-2		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248	°F
Drying Time	4.0	hr
Rear Temperature	446 to 572	°F
Middle Temperature	482 to 590	°F
Front Temperature	482 to 572	°F
Mold Temperature	158 to 248	°F

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Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min
