

WONDERLITE PC-122

PC

CHIMEI Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	22	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	22	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mechanical properties			
ISO Data			
Yield stress	63	MPa	ISO 527
Stress at break	70	MPa	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Charpy notched impact strength, +23°C	60	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	60	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Strength at Yield	61.6	MPa	ASTM D 638
Flexural Modulus	2344	MPa	ASTM D 790
Flexural Strength	89.8	MPa	ASTM D 790
Rockwell Hardness	M 77	-	ASTM D 785
Izod Impact notched, 1/8 in	822	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	128	°C	ISO 75-1/-2
Vicat softening temperature, A	150	°C	ISO 306
Vicat softening temperature, B	145	°C	ISO 306
Coeff. of linear therm. expansion, parallel	70	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Yellow Card available	yes	-	-
ASTM Data			
UL 94 Flame rating	V-2	-	UL 94
Thickness tested	0.991	mm	-
DTUL @ 66 psi	144	°C	ASTM D 648
Vicat Temperature	150	°C	ASTM D 1525
Electrical properties			
ASTM Data			
Arc Resistance	90	s	ASTM D 495
Optical properties			
ASTM Data			
Haze	0.8	%	ASTM D 1003
Light Transmittance	89	%	ASTM D 1003
Index of Refraction	1.58	-	ASTM D 542
Other properties			
Density	1200	kg/m ³	ISO 1183
Density	1200	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	120	°C	-

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Pre-drying - Time	4	h	-
Mold temperature	70 - 120	°C	-
Feed temperature	220 - 300	°C	-
Zone 1	240 - 310	°C	-
Nozzle temperature	240 - 300	°C	-

Characteristics**Processing**

Injection Molding

Applications

General Purpose, Packaging, Toys

Special Characteristics

Transparent

Regional Availability

Asia Pacific