



# CHIMEI-ASAHI CORPORATION

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## Typical Properties of WONDERLITE® PC-110 :

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Typical Properties		Test Method	Unit	Condition	PC-110
Melt Flow Index		ASTM D1238	g/10min	300°C, 1.2 kg	10
Specific Gravity		ASTM D792	-	23/23°C	1.20
Water Absorption (immersion)		ASTM D570	%	24hr at 23°C	0.20
Light Transmission		ASTM D1003	%	3 mm thick	89
Haze		ASTM D1003	%	3.2 mm thick	< 0.8
Refractive Index		ASTM D542	-	-	1.585
Tensile Strength at Yield		ASTM D638	Kg/cm <sup>2</sup>	23°C	630
Tensile Elongation	Yield	ASTM D638	%	23°C	6
	Break			23°C	110
Flexural Strength		ASTM D790	Kg/cm <sup>2</sup>	23°C	920
Flexural Modulus		ASTM D790	Kg/cm <sup>2</sup>	23°C	24000
Izod Impact Strength (Notched)		ASTM D256	Kg · cm/cm	1/4"	15
				1/8"	87
Rockwell Hardness		ASTM D785	M Scale	-	M-77
Compressive Strength		ASTM D695	Kg/cm <sup>2</sup>	-	780
Heat Distortion Temperature (unannealed)		ASTM D648	°C	4.6 Kg/cm <sup>2</sup> , 120°C/hr	136
				18.6 Kg/cm <sup>2</sup> , 120°C/hr	125
Vicat Softening Temperature		ASTM D1525	°C	1 Kg, 50°C/hr	150
Coefficient of Linear Expansion		ASTM D696	x10 <sup>-5</sup> cm/cm/°C	40~100°C	6~8
Thermal Conductivity		ASTM C177	W/m°C	-	0.2
Mold Shrinkage		ASTM D955	%	parallel	0.5-0.7
				across	0.5-0.7
Flammability		UL 94	-	-	2.5mm V-2
Volume Resistivity		ASTM D257	x10 <sup>16</sup> Ω · cm	-	3
Dielectric Constant		ASTM D150	-	60 Hz	2.95
				10 <sup>6</sup> Hz	2.9
Dielectric Dissipation Factor (tan δ)		ASTM D150	-	60 Hz	0.0004
				10 <sup>6</sup> Hz	0.009
Dielectric Breakdown Strength		ASTM D149	kV/mm	1.6mm	30
Arc Resistance (Tungsten electrode)		ASTM D495	sec	-	110
Characteristics/Principal Applications					<b>Medium Viscosity</b>

**Note : The data shown above are provided for guidance purposes.**