

Typical Properties of WONDERLITE® PC-110L :

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Typical Properties	Test Method	Unit	Condition	PC-110L
Melt Flow Index	ASTM D1238	g/10min	300°C, 1.2 kg	14.5
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	88
Haze	ASTM D1003	%	3.2 mm thick	< 0.8
Refractive Index	ASTM D542	-	-	1.585
Tensile Strength at Yield	ASTM D638	Kg/cm ²	1/8", 6 mm/min	630
Tensile Elongation	Yield	%	1/8", 6 mm/min	6
	Break		1/8", 6 mm/min	110
Flexural Strength	ASTM D790	Kg/cm ²	1/4", 2.8 mm/min	920
Flexural Modulus	ASTM D790	Kg/cm ²	1/4", 2.8 mm/min	24000
Izod Impact Strength (Notched)	ASTM D256	Kg · cm/cm	1/8"	87
Rockwell Hardness	ASTM D785	M Scale	-	M-77
Compressive Strength	ASTM D695	Kg/cm ²	-	780
Heat Distortion Temperature (unannealed)	ASTM D648	°C	4.6 Kg/cm ² , 120°C/hr	136
			18.6 Kg/cm ² , 120°C/hr	125
Vicat Softening Temperature	ASTM D1525	°C	1 Kg, 50°C/hr	150
Coefficient of Linear Expansion	ASTM D696	x10 ⁻⁵ 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	-	-	1.5mm V-2
Volume Resistivity	ASTM D257	x10 ¹⁶ Ω · cm	-	3
Dielectric Constant	ASTM D150	-	60 Hz	2.95
			10 ⁶ Hz	2.9
Dielectric Dissipation Factor (tan δ)	ASTM D150	-	60 Hz	0.0004
			10 ⁶ Hz	0.009
Dielectric Breakdown Strength	ASTM D149	kV/mm	1.6mm	30
Arc Resistance (Tungsten electrode)	ASTM D495	sec	-	110
Characteristics/Principal Applications				Auto Headlamp (SAE-approved)

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