

WONDERLITE® PC-115L Characteristics :

PROPERTIES		TEST METHOD	UNIT	TEST CONDITION	PC-115L
Melt Flow Index		ASTM D1238	g/10min	300℃, 1.2 kg	17.5
Mass Density		ASTM D792	-	23/23℃	1.20
Water Absorption		ASTM D570	%	24 hr at 23℃	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(Yield)		ASTM D638	Kg/cm ²	1/8", 6 mm/min	630
Tensile Elongation	Yield	ASTM D638	%	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		ASTM D256	Kg · cm/cm	1/8"	85
Hardness		ASTM D785	M Scale	-	M-77
Compressive Strength		ASTM D695	Kg/cm ²	-	780
Heat Distortion Temp, Unannealed		ASTM D648	℃	4.6 Kg/cm ² , 120℃/hr	136
				18.6 Kg/cm ² , 120℃/hr	125
Softening Temp.		ASTM D1525	℃	1 Kg, 50℃/hr	148
Coefficient of Linear Thermal Expansion		ASTM D696	x10 ⁻⁵ cm/cm/℃	40~100℃	6~8
Thermal Teansmission		ASTM C177	W/m℃	-	0.2
Shrinkage		ASTM D955	%	parallel	0.5-0.7
				across	0.5-0.7
UL Flammability		UL 94	-	-	1.5mm V-2
Resistance		ASTM D257	x10 ¹⁶ Ω · cm	-	3
Dielectric Constant		ASTM D150	-	60 Hz	2.95
				10 ⁶ Hz	2.9
Dielectric Loss		ASTM D150	-	60 Hz	0.0004
				10 ⁶ Hz	0.009
Dielectric Strength		ASTM D149	kV/mm	1.6 mm	30
Arc Resistance		ASTM D495	sec	-	110
Character / Application					Automotive Light, Weather Resistance

Note : These are typical properties only and not to be construed as specifications.

WONDERLITE – PC · WONDERLOY – PC/ABS