

**Typical Properties of WONDERLITE® PC-122U :**

May 28, 2012, v2.0

Typical Properties	Test Method	Unit	Condition	PC-122U	
Melt Flow Index	ASTM D1238	g/10min	300°C, 1.2 kg	22	
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 <sup>2</sup>	1/8", 6 mm/min	630	
Tensile Elongation	Yield	ASTM D638	%	1/8", 6 mm/min	6
	Break			1/8", 6 mm/min	90
Flexural Strength	ASTM D790	Kg/cm <sup>2</sup>	1/4", 2.8 mm/min	920	
Flexural Modulus	ASTM D790	Kg/cm <sup>2</sup>	1/4", 2.8 mm/min	24000	
Izod Impact Strength (Notched)	ASTM D256	Kg · cm/cm	1/8"	80	
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	-	-	3.0mm 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>UV Resistant</b>	

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