

## TYPICAL PROPERTIES OF Wonderlite PC

Properties	ISO	Din	Unit	Test Method	Wonderlite PC									
					Optical		General			UV Stabilized			Flame Retardant	
					PC-175D	PC-175	PC-110	PC-115	PC-122	PC-110U	PC-122U	PC-110L	PC-110V	PC-110N
Melt Volume-Flow Rate	1133		cm <sup>3</sup> /10 min	300 x1.2 Kg	50	65	10	15	22	10	22	10	10	13
Vicat Softening Temperature	306	53460		1 Kg, 50 /hr	147	145	150	150	150	148	148	148	150	148
				5 Kg, 50 /hr	142	140	145	145	145	143	143	143	143	145
H.D.T/A	75	53461		1.80MPa, unanneal	125	124	128	128	128	127	127	127	128	127
				1.80MPa, anneal	140	140	143	143	143	142	142	142	142	143
IZOD Impact Strength	180/4A	-	KJ/m <sup>2</sup>	1/8" notched	10	8	80	75	70	80	70	80	80	80
	180/1U	-		1/8" unnotched	-	-	-	-	-	-	-	-	-	-
Charpy Impact Strength	179	-	KJ/m <sup>2</sup>	Notched	15	10	75	70	60	75	60	75	75	75
		-		Unnotched	-	-	-	-	-	-	-	-	-	-
Tensile Strength	527	53455	MPa	50mm/min,yield	63	60	65	64	63	65	63	65	65	65
			MPa	50mm/min,break	60	50	75	70	70	75	70	75	75	75
Tensile Elongation	527	53455	%	50mm/min	65	65	120	120	120	120	120	120	120	120
Flexural Strength	178	53452	MPa	2mm/min	90	90	90	90	90	90	90	90	90	90
Flexural Modulus	178	53452	MPa	2mm/min	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
Ball Indentation Hardness	2039-1	53456	N/mm <sup>2</sup>	H358/30	104	106	100	101	102	100	102	100	100	100
Flammability			-	UL-94	-	-	1.5mm V-2 2.5mm V-2 3.0mm HB	0.4mm V-2 1.5mm V-2 2.5mm V-2 3.0mm HB	1.6mm V-2 3.2mm V-2	0.75mm V-2 1.5mm V-2 3.0mm HB	0.75mm V-2 3.0mm V-2	1.5mm V-2 3.0mm HB	1.5mm V-2 3.0mm V-2 6.0mm V-0	1.5mm V-0 3.0mm V-0
Mass Density	1183	53479-A	g/cm <sup>3</sup>		1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Characteristics/Principal Applications					Optical Disk	Optical Disk	Medium Viscosity	Low Viscosity	High Flow	UV Stabilized	UV Stabilized	Head Lamp	3.0 mm V-2	V-0 Opaque

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