

# CHIMEI

奇美實業股份有限公司  
CHI MEI CORPORATION

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## WONDERLOY® PC-510

PC alloy, non-halogen Flame Retardant

PROPERTIES	CONDITION	VALUE	UNIT	METHOD
<b><u>PHYSICAL</u></b>				
Melt Flow Index	260°C/2.16kg	20	g/10min	ASTM D-1238
Spiral Flow Length	260°C, 2mm V:50%, P:50%	45	cm	Chimei method
Specific Gravity	23°C	1.17	---	ASTM D-792
Mold Shrinkage		0.4~0.6	%	ASTM D-955
Rockwell Hardness	23°C	R-113	---	ASTM D-785
CLTE	Flow:23-55°C	8.00E-05	cm/cm/°C	ISO11359-2
<b><u>MECHANICAL</u></b>				
Tensile Strength @ Yield	50mm/min	500	kg/cm <sup>2</sup>	ASTM D-638
Tensile Elongation @ Break	50mm/min	100	%	ASTM D-638
Flexural Strength	1.3mm/min	800	kg/cm <sup>2</sup>	ASTM D-790
Flexural Modulus	1.3mm/min	25000	kg/cm <sup>2</sup>	ASTM D-790
Izod Impact ( 1/8" )	Notched, 23°C	60	kg-cm/cm	ASTM D-256
<b><u>THERMAL</u></b>				
Heat Distortion Temp. ( unannealed )	3.2mm, 1.82Mpa 120°C/hr	78	°C	ASTM D-648
	6.4mm, 1.82Mpa 120°C/hr	87		
Vicat Softening Temp. ( unannealed )	1kg, 50°C/hr	94	°C	ASTM D-1525
	5kg, 50°C/hr	85		
<b><u>ELECTRICAL</u></b>				
Dielectric Constant	1MHz	3.1	--	IEC 60250
Volume Resistivity	--	3.9E+17	Ohm*m	IEC 60093
Surface Resistivity	--	2.9E+17	Ohm	IEC 60093
<b><u>FLAMMABILITY</u></b>				
Flame Rating_V0		1.5	mm	UL-94
Flame Rating_5VB		2.1	mm	UL-94
Flame Rating_5VA		3.0	mm	UL-94

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## PROCESSING PARAMETERS

Drying Temperature	80	°C
Drying Time	4	Hrs
Barrel Temperature	220~250	°C
Mold Temperature	50~100	°C

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All figures listed here is for reference, not guaranteed.

Final revised date : 2014/6

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