

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
<u>PHYSICAL</u>				
Specific Gravity	23°C	1.17		ISO 2039
Melt Volume-Flow Rate	260°C/2.16kg	21	cm ³ /10min	ISO 1133
Spiral flow length	260°C, 2mm V:50%, P:50%	45	cm	Chimei method
Mold Shrinkage		0.4~0.6	%	ISO 2577
Rockwell Hardness	23°C	R-113	---	ASTM D-785
CLTE	Flow:23-55°C	8.00E-05	cm/cm/°C	ISO11359-2
<u>MECHANICAL</u>				
Tensile Strength @ Yield	50mm/min	55	Mpa	ISO 527
Tensile Strength @ break	50mm/min	45	Mpa	ISO 527
Tensile Elongation @ Break	50mm/min	110	%	ISO 527
Flexural Strength	2mm/min	80	Mpa	ISO 178
Flexural Modulus	2mm/min	2500	Mpa	ISO 178
Izod Impact (3.2mm)	Notched, 23°C	45	kJ/m ²	ISO 180
Izod Impact (3.2mm)	Notched, -30°C	15	kJ/m ²	ISO 180
Charpy Impact (3.2mm)	Notched, 23°C	45	kJ/m ²	ISO 179
Charpy Impact (3.2mm)	Notched, -30°C	15	kJ/m ²	ISO 179
<u>THERMAL</u>				
Heat Distortion Temp. (unannealed)	4mm, 1.82Mpa 120°C/hr	73	°C	ISO 75
Vicat Softening Temp. (unannealed)	1kg, 50°C/hr 5kg, 50°C/hr	94 85	°C	ISO 306
<u>ELECTRICAL</u>				
Dielectric Constant	1MHz	3.1	--	IEC 60250
Volume Resistivity	--	3.9E+15	Ohm*m	IEC 60093
Surface Resistivity	--	2.9E+15	Ohm	IEC 60093
<u>FLAMMABILITY</u>				
Flame Rating		1.5mm V0 2.1mm 5VB 3.0mm 5VA		UL-94 UL-94 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

All figures listed here is for reference, not guaranteed.

Final revised date : 2014/6

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