

# CHIMEI

奇美實業股份有限公司  
CHI MEI CORPORATION

## WONDERLOY® PC-385

PC/ABS alloy, Ultra high impact.

PROPERTIES	CONDITION	VALUE	UNIT	METHOD
<b><u>PHYSICAL</u></b>				
Melt Flow Index	260℃/5kg	21	g/10min	ASTM D-1238
Spiral Flow Length	260℃ ,2mm V:50%, P:50%	30	cm	Chimei method
Specific Gravity	23℃	1.15	---	ASTM D-792
Mold Shrinkage		0.4~0.6	%	ASTM D-955
Rockwell Hardness	23℃	R-114	---	ASTM D-785
CLTE	Flow:23-55℃	7.50E-05	cm/cm/℃	ISO11359-2
<b><u>MECHANICAL</u></b>				
Tensile Strength @ Yield	50mm/min	540	kg/cm <sup>2</sup>	ASTM D-638
Tensile Strength @ Break	50mm/min	-	kg/cm <sup>2</sup>	ASTM D-638
Tensile Elongation @ Yield	50mm/min	-	%	ASTM D-638
Tensile Elongation @ Break	50mm/min	90	%	ASTM D-638
Flexural Strength	1.3mm/min	800	kg/cm <sup>2</sup>	ASTM D-790
Flexural Modulus	1.3mm/min	23500	kg/cm <sup>2</sup>	ASTM D-790
Izod Impact ( 1/8” )	Notched, 23℃	60	kg-cm/cm	ASTM D-256
Izod Impact ( 1/8” )	Notched,-30℃	50	kg-cm/cm	ASTM D-256
<b><u>THERMAL</u></b>				
Heat Distortion Temp. ( unannealed )	3.2mm,1.82Mpa 120℃/hr	110	℃	ASTM D-648
	6.4mm,1.82Mpa 120℃/hr	118		
Vicat Softening Temp. ( unannealed )	1kg, 50℃/hr	140	℃	ASTM D-1525
	5kg, 50℃/hr	133		
<b><u>ELECTRICAL</u></b>				
Dielectric Constant	1MHz	3.0	--	IEC 60250
Volume Resistivity	--	1E+16	Ohm*m	IEC 60093
Surface Resistivity	--	1E+16	Ohm	IEC 60093
<b><u>FLAMMABILITY</u></b>				
Flame Class Rating		1.5 mm HB		UL-94



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## **PROCESSING PARAMETERS**

Drying Temperature	80~100	°C
Drying Time	4	Hrs
Barrel Temperature	240~280	°C
Mold Temperature	50~100	°C

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All figures listed here is for reference, not guaranteed.

Final revised date : 2014/12

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