

CHIMEI

奇美實業股份有限公司
CHI MEI CORPORATION

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WONDERLOY® PC-540H

PC/ABS alloy, non-halogen Flame Retardant

PROPERTIES	CONDITION	VALUE	UNIT	METHOD
<u>PHYSICAL</u>				
Specific Gravity	23℃	1.19		ISO 1183
Melt Volume-Flow Rate	260℃/2.16kg	30	cm ³ /10min	ISO 1133
Mold Shrinkage		0.4~0.6	%	ISO 2577
Rockwell Hardness	23℃	R-120	---	ISO 2039-2
CLTE	Flow:23-55℃	8.00E-05	cm/cm/℃	ISO11359-2
<u>MECHANICAL</u>				
Tensile Strength @ Yield	50mm/min	60	Mpa	ISO 527
Tensile Strength @ break	50mm/min	55	Mpa	ISO 527
Tensile Elongation @ Break	50mm/min	120	%	ISO 527
Flexural Strength	2mm/min	90	Mpa	ISO 178
Flexural Modulus	2mm/min	2500	Mpa	ISO 178
Izod Impact（3.2mm）	Notched, 23℃	40	kJ/m ²	ISO 180
Izod Impact（3.2mm）	Notched, -30℃	12	kJ/m ²	ISO 180
Charpy Impact（3.2mm）	Notched, 23℃	40	kJ/m ²	ISO 179
Charpy Impact（3.2mm）	Notched, -30℃	12	kJ/m ²	ISO 179
<u>THERMAL</u>				
Heat Distortion Temp.（unannealed）	4mm,1.82Mpa	77	℃	ISO 75
	4mm,0.45Mpa	86		
Vicat Softening Temp.（unannealed）	1kg, 50℃/hr	100	℃	ISO 306
	5kg, 50℃/hr	94		
<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		UL-94
		2.0mm 5VB		UL-94

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PROCESSING PARAMETERS

Drying Temperature	80~85	°C
Drying Time	4	Hrs
Barrel Temperature	220~250	°C
Mold Temperature	>90	°C

All figures listed here is for reference, not guaranteed.

Final revised date : 2014/6

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