

# Chi Mei Wonderloy<sup>®</sup> PC-540H

Features: High flow, High heat resistance, Good processability, High - speed processability

Applications: Office Applications, Projectors, Charger housing, Display housing, E & E housing, Home Appliances housing, Lighting Applications, Compacting equipment, Audio supplies, Hairdryer housing, Computer housing, Notebook housing

Physical property		Standard	Value	Unit
Density	23°C	ISO 1183	1.19	g/cm <sup>3</sup>
Shrinkage		ISO 2577	0.4~0.6	%
Melt Index	260°C 2.16kg	ISO 1133	30	cm <sup>3</sup> /10min
Hardness		Standard	Value	Unit
Rockwell Hardness	R(Scale) 23°C	ISO 2039	120	
Mechanical behavior		Standard	Value	Unit
Tensile Strength	Yield 50mm/min	ISO 527	60	MPa
Tensile Strength	Break 50mm/min	ISO 527	55	MPa
Elongation	Break 50mm/min	ISO 527	120	%
Flexural Strength	2.0mm/min	ISO 178	90	MPa
Flexural Modulus	2.0mm/min	ISO 178	2500	MPa
Izod Notch Impact	23°C 3.2mm	ISO 180	40	kJ/m <sup>2</sup>
Izod Notch Impact	-30°C 3.2mm	ISO 180	12	kJ/m <sup>2</sup>
Charpy Notch Impact	23°C 3.2mm	ISO 179	40	kJ/m <sup>2</sup>
Charpy Notch Impact	-30°C 3.2mm	ISO 179	12	kJ/m <sup>2</sup>
Thermal		Standard	Value	Unit
HDT	Unannealed 1.8MPa 4.0mm	ISO 75	77	°C
HDT	Unannealed 0.45MPa 4.0mm	ISO 75	86	°C
Vicat Softening Temperature	Unannealed 50°C/hr 10N	ISO 306	100	°C
Vicat Softening Temperature	Unannealed 50°C/hr 50N	ISO 306	94	°C
CLE	Flow 23~55°C	ISO 11359	0.00008	cm/cm/°C
Electrical properties		Standard	Value	Unit
Volume Resistivity		IEC 60093	3.9E+15	Ω.m
Surface Resistivity		IEC 60093	2.9E+15	Ω
Dielectric Constant	1MHz	IEC 60250	3.1	
Flammability		Standard	Value	Unit
Flame Rating	All Color 0.8mm	UL94	HB	
Flame Rating	All Color 1.5mm	UL94	V-0	
Flame Rating	All Color 2.0mm	UL94	V-0 5VB	