

WONDERLOY PC-545

(PC+ABS)

CHIMEI Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	10	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	63	MPa	ISO 527
Stress at break	62	MPa	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Flexural strength	94	MPa	ISO 178
Charpy notched impact strength, +23°C	60	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	14	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	63	kJ/m ²	ISO 180/1A
Izod notched impact strength	15	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	102	°C	ISO 75-1/-2
Vicat softening temperature, A	127	°C	ISO 306
Vicat softening temperature, B	121	°C	ISO 306
Coeff. of linear therm. expansion, parallel	80	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.2	mm	-
Yellow Card available	yes	-	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	2.5	mm	-
Yellow Card available	yes	-	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	1.5	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (2)	3	mm	-
Glow Wire Ignition Temperature (GWIT)	800	°C	IEC 60695-2-13
GWIT - thickness tested (1)	1.5	mm	-
Glow Wire Ignition Temperature (GWIT)	800	°C	IEC 60695-2-13
GWIT - thickness tested (2)	3	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.1	-	IEC 62631-2-1
Volume resistivity	3.9E15	Ohm*m	IEC 62631-3-1
Surface resistivity	2.9E15	Ohm	IEC 62631-3-2
ASTM Data			
Dielectric Strength, Short Time	1.22	kV/mm	ASTM D 149
Arc Resistance	150	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Density	1190	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	90	°C	-
Pre-drying - Time	4	h	-
Mold temperature	40 - 70	°C	-
Feed temperature	210 - 230	°C	-
Zone 1	240 - 260	°C	-

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Nozzle temperature

230 - 250

°C

-

Characteristics**Processing**

Injection Molding

Applications

IT / Business Machine, Electrical and Electronical

Additives

Flame retarding agent

Regional Availability

Asia Pacific

Special Characteristics

Flame retardant, Heat stabilized or stable to heat